

Step 5

3 Test / Mix (4th step): A

1. ... ♗c2 threatens 2. ... ♗xd1 and 2. ... ♖b3+ (double attack: targeting)
1. ♖e8+ ♖xe8 2. ♖xe8+ ♖f7 3. ♖h5# (mate in three)
1. ... ♖b3+ 2. axb3 ♖c5 (double attack: knight)
1. ♖e6 fxe6 2. ♖g5+ (double attack: clearing)
1. ♖xh7+ ♖xh7 2. ♖h4+ ♖g7 3. ♖h8# (attacking the king: access)
1. ... ♖xg2+ 2. ♖xg2 ♖f4+ 3. ♖g1 ♖h3# (double check: luring)
1. ♖d4 ♖d7 2. ♖f6+ (discovered attack: targeting)
1. ♖dxc4 (1. ♖cxc4? ♖b2+ 2. ♖e1 (2. ♖f1 ♖f8+) 2. ... ♖xg2) 1. ... ♖b2+ 2. ♖c2 (a pinned piece is not a good defender)
1. h4 ♖g3 2. ♖h2 (trapping: chasing)
1. ♖xh6 gxxh6 2. ♗f6 (attacking the king: access)
1. ... ♖xe2 (1. ... ♖f4? 2. ♗f3 ♖xh3+ 3. ♖f1) 2. ♖xe2 ♖f4 (double attack: luring)
1. ♗c4+ ♗xc4 2. ♖d7 (elimination of the defence: luring away + mate / seventh rank)

4 Test / Mix (4th step): B

1. ♖xa6 bxa6 2. ♗a5 1. ♖xa6 bxa6 2. ♗a5 (X-ray attack: elimination of the defence)
1. ... ♗c2 2. ♖e2 ♗xa4 (double attack: bishop thanks to a pin)
1. ♖f8+ ♖xf8 2. ♗xh7+ ♖xh7 3. ♖xf8 (elimination of the defence: and material)
1. ♖h8+ (1. ♖h3 f5; 1. ♖g3 ♖xe4) 1. ... ♗xh8 2. ♖h3 ♗e5 3. ♖h7# (magnet)
- Drawing
1. g6+ (1. ♖f6+ ♖xf6 2. ♖xf6+ ♖e8 3. ♖xe5) 1. ... ♖xg6 2. ♖h7# (elimination of the defence: blocking)
1. ♖xd6 ♖xd6 2. ♗f4 (X-ray attack: luring)
- Drawing
1. ♖exd5 ♖xg3 2. ♖d8+ ♖xd8 3. ♖xd8+ ♖h7 4. hxg3 (discovered attack: in-between move)
1. ♖a7 ♖e5 2. ♖axc8+ (double attack: knight luring away)
1. d5 ♖xd5 (1. ... exd5 2. ♖g3+) 2. ♖f6+ ♖g8 3. ♖xf7+ ♖h8 4. ♖f8# (elimination of the defence: interfering)
1. ♖e7 (1. ♖xd7? ♖xd7 2. ♖e7 ♖e5) (pin: attack on a pinned piece)

5 Mate / Mate in two: A

1. ♗f5 (1. ... ♖xc2 2. ♗xc2#) 1. ... ♖xe3 2. ♗d7#
1. ♖g4+ ♖e2 2. ♖a4#
1. ♗d2+ ♖g4 2. ♖g6#
1. b4 ♖a1 2. ♖c1#
1. h4 ♖xa2 2. hxg5#
1. f4 bxc4 (1. ... ♗xe4 2. ♖c5#; 1. ... ♖c2 2. ♖ed4#) 2. ♖e5#
1. ♖f7+ ♖xf7 2. ♖h6#
1. ♖g6+ ♖fxg6 (1. ... ♖hxg6 2. ♖h4#; 1. ... ♖xg6 2. ♖xg7#) 2. ♖f4#
1. ... ♖d3+ 2. cxd3 ♗d4#
1. ♖e6 ♖xe6 (1. ... dxex6 2. ♖f7#; 1. ... ♖f8 2. ♖h6#) 2. ♗d3#
1. ♖d5+ ♖xd5 (1. ... ♗xd5 2. ♖xd3#; 1. ... ♖xd5 2. ♖e4#) 2. ♖b5#
1. ♖c3 c5 (1. ... g1♖ 2. ♖e4#; 1. ... ♖d5 2. ♖e2#) 2. ♖b5#

6 Mate / Mate in three: A

1. ♖e5+ ♖h6 2. ♖h5+ gxxh5 3. ♖f6#
1. ♖h8+ ♖b8 2. ♖a1+ ♖a6 3. ♖xa6#
1. ♖a5+ ♖xa5 2. axb7+ ♖b6 3. b8♖#
1. ♖h7+ ♖g4 2. ♖f5+ ♖h5 3. ♖h7#
1. ♖d1+ ♖h6 2. ♖h1+ ♖h4 3. ♖xh4#
1. ♖a1+ ♖g6 2. ♖g1+ ♖f6 3. ♖g5#
1. ♖h8+ ♖g6 2. ♖d1 b1♖ 3. ♖h5#
1. ♖e5+ ♖e7 2. ♖d8+ ♖xd8 3. ♖b8#
1. ♖a7+ ♖a6 2. ♖xa4+ bxa4 3. ♖c5#
1. ♖g7+ ♖f5 2. ♖e5+ ♖xe5 3. ♖g6#

- 11) 1. ♖g8+ ♗xg8 2. f8♭+ ♘h8 3. ♗h7#
 12) 1. ... ♗xb4+ 2. cxb4 ♖a2 3. ♖c2 ♖a6#

7 Mate / Mate in three: B

- 1) 1. ♗h2+ ♘g6 2. ♙h5+ ♘h7 3. ♙f7#
 2) 1. f4+ gxf3 2. ♖f4+ ♘h5 3. ♖h4#
 3) 1. b4+ ♘xb4 2. ♖d4+ ♘a5 3. ♖c3#
 4) 1. g4+ ♘xh4 2. ♖f6+ g5 3. ♖xh6#
 5) Drawing
 6) Drawing
 7) 1. ♗b8+ ♘xa6 2. ♗b6+ ♗xb6 3. ♘c5#
 8) 1. ♗a8+ ♘xa8 2. ♘d7 Δ 3. ♗a2#
 9) 1. ♗g5+ ♘xg5 2. ♘f7+ ♘h5 3. g4#
 10) 1. ♘g4+ ♗xg4 2. ♗d5+ ♘xd5 3. ♗f5#
 11) 1. ♗h6 gxf6 2. h3+ ♘h5 3. ♙f7#
 12) 1. c8♭+ ♘a6 2. ♘b4 ♘d6 3. ♘c5#; 2. ... e5 3. ♘b8#

8 Mate / Mate in three: C

- 1) 1. ♖g8+ ♗xg8 2. ♘xg6+ hxg6 3. ♗h3#
 2) 1. ♘a6+ ♗xd8 2. ♖b8+ ♗xb8 3. ♘c7#
 3) 1. ♖xb8+ ♘xb8 2. ♗d8+ ♘b7 3. ♗b8#
 4) 1. ♗h8+ ♘c7 2. ♗c8+ ♙xc8 3. ♖xc8#
 5) 1. ♗c8+ ♗xc8 2. ♖h8+ ♘e7 3. ♘xc8#
 6) 1. ♘xf6+ ♘f8 2. ♘gxh7+ ♗xh7 3. ♖g8#
 7) 1. ... ♘g1+ 2. ♘h4 ♘f3+ 3. ♘h5 (3. ♘h3 ♘f2#; 3. ♙xf3 ♗h2#) 3. ... ♘f6#
 8) 1. ♗xg8+ ♘xg8 2. ♖f8+ ♘xf8 3. ♗b8#
 9) 1. ... ♙g2+ 2. ♘g4 ♗f4+ 3. gxf4 ♙h3#
 10) 1. ♖a1+ ♘e3 2. ♖e1+ ♘d4 3. ♖c3#
 11) 1. d3+ ♙xd3 2. ♖f5+ ♘xf5 3. ♙xd3#
 12) 1. ♗e7+ ♘f8 2. ♗e8+ ♘xe8 3. ♖e7#

9 Thinking ahead / Mate: B

- 1) 1. ... ♗a2+ 2. ♘xa2 ♗b2+ 3. ♘a1 ♗a2+ 4. ♘xa2 ♖b2#
 2) 1. ♘c6+ (1. ♘c4 g1♖ 2. ♘b3+ ♘a4 3. ♘c5+) 1. ... ♘b5
 3) 1. ... ♖a1+ 2. ♘xa1 ♘a3+ 3. ♘a2 ♘c2+ 4. ♘b3 (4. ♘b1 ♗xa1#) 4. ... ♗a3#
 4) 1. ♘b6+ ♘a7 2. ♘c8+ ♘a8 3. ♖a7+ ♘xa7 4. ♘b6
 5) 1. ... ♗h1+ (1. ... ♘2g4+? 2. hxg4 ♘xg4+ 3. ♘h3) 2. ♙xh1 ♖xh3+ 3. ♘g1 ♖xh1+ 4. ♘xf2 ♘g4#
 6) 1. ♖xc5+ ♘xc5 2. ♙a3+ ♘c4 3. ♙b5+ (3. ♙b3+ ♘xc3) 3. ... ♘xc3 4. ♙b4#
 7) 1. ... ♗c1+ 2. ♘b2 ♘d3+ 3. ♘a3 ♗a4+ 4. bxa4
 8) 1. ♗b6+ ♘xc5 2. b4+ ♘d4 3. ♗d3+ ♘xc4 4. ♘e3#
 9) 1. e5+ ♘xe5 2. d4+ ♘xd4 3. ♖xf4+ ♘c5 4. ♖e3#

11 Pawn endings / Breakthrough: A

- 1) 1. c6 bxc6 2. bxa6
 2) 1. g6 gxf6 (1. ... hxg6 2. h7) 2. gxf7
 3) 1. c5 bxc5 2. a5
 4) 1. g4 ♘c5 2. f5 gxf5 3. gxf5
 5) 1. ... b4 2. ♘d4 (2. cxb4 c3) 2. ... a3 3. bxa3 bxa3
 6) 1. f6 gxf6 (1. ... ♘e6 2. fxg7 ♘f7 3. h6 ♘g8 4. ♘c4 ♘f7 5. ♘d5 ♘g8 6. g6 hxg6 7. ♘e6) 2. g6 hxg6 3. h6
 7) 1. c6! (1. c4? c6) 1. ... bxc6 2. c4 ♘f4 3. b5 cxb5 4. cxb5 axb5 5. a6
 8) 1. b4 cxb4 2. c5 bxc5 3. b6
 9) 1. a6 c4 2. b6
 10) 1. g5 ♘h8 2. c4 bxc4 3. b5 c3 4. b6
 11) 1. f5 gxf5 2. h5
 12) 1. ... a5 (1. ... a6? 2. axb5 axb5 3. ♘a3 ♘c3 4. ♘a2 ♘xb4 5. ♘b2 ♘c4 6. ♘c2) 2. bxa5 b4 3. a6 b3+ 4. ♘a3 b2
 5. a7 b1♖ 6. a8♖ ♖b3#

12 Pawn endings / Breakthrough: B

- 1) 1. g6 (1. h6? g6 0-1) 1. ... b2 2. h6
- 2) 1. b5 (1. c5 bxc5 2. b5 c4 3. b6 c3 4. b7 c2 5. b8♖ c1♗+) 1. ... ♖f6 2. c5 ♖e6 3. c6
- 3) 1. ... b4 (1. ... ♖d3 2. h4 ♖xc3 3. h5 d4 4. h6 d3 5. h7) 2. cxb4 d4
- 4) 1. d6! exd6 2. d5! fxe4 (2. ... exd5 3. exf5) 3. dxe6
- 5) 1. ... g4 (1. ... h4 2. gxh4 gxh4 3. d5) 2. d5 h4 3. d6 hxg3 4. d7 g2 5. d8♗ g1♗+
- 6) 1. ... e3 2. fxe3 fxg4 3. ♖e4 g3 4. ♖f3 gxh2 (4. ... g2? 5. ♖f2)
- 7) 1. a6 (1. b6 axb6 2. a6 ♖c6) 1. ... g4 2. b6 cxb6 (2. ... g3 3. bxa7 g2 4. a8♗+) 3. cxb6 ♖c6 4. bxa7
- 8) 1. a4 (1. d5? c5) 1. ... bxa4 2. d5 cxd5 3. b5 a3 4. ♖b3 (4. b6? d4+ 5. ♖b3 d3 6. b7 d2 7. ♖c2 a2) 4. ... d4 5. ♖xa3 d3 6. ♖b2
- 9) 1. g5 h4 2. f4 h3 3. f5 h2 4. fxg6 h1♗ 5. g7+ ♖h7 6. g8♗#
- 10) 1. f6 gxf6 2. exf6 ♖d6 3. g5 ♖e5 4. gxh6 ♖xf6 5. ♖b3 e5 4. ♖xb4
- 11) 1. a5 (1. ♖c6 ♖c8 2. a5 bxa5 3. b6 cxb6 4. ♖xd6 ♖d8=) 1. ... bxa5 2. c5 dxc5 (2. ... a4 3. c6 a3 4. b6) 3. b6 cxb6 4. d6
- 12) 1. g4! hxg4 (1. ... gxh4 2. gxh5 h3 3. ♖f3 h2 4. ♖g2 h1♗+ 5. ♖xh1 f5 6. h6 ♖f6 7. e5+) 2. h5 f5 3. h6 ♖f6 4. e5+

13 Pawn endings / Key squares: A

- 1) 1. ♖e4 ♗xd4+ 2. ♖xd4 ♖e6 3. ♖c5 1-0
- 2) 1. ♖e4 f3 (1. ... ♖d6 2. ♖xd4) 2. ♖xf3 ♖d5 3. ♖e2 ♖c4 4. ♖d2 ½-½
- 3) 1. ♖b8! (1. a7? ♖c7=) 1. ... ♖xa6 2. ♖c7 1-0
- 4) 1. ♖f2! (1. ♖e2? ♖xe4) 1. ... ♖xe4 (1. ... ♖xg4 2. ♖e3! ♖g5 3. ♖d4 ♖f6 4. ♖d5 ♖e7 5. ♖e5) 2. ♖g3! ♖e5 3. ♖h4 ♖f6 4. ♖h5 ♖g7 5. ♖g5 ♖h7 6. ♖f6 ♖h6 7. g5+ ♖h7 8. ♖f7! (8. g6+? ♖h8! 9. ♖f7 stalemate) 8. ... ♖h8 9. ♖g6! (9. g6? stalemate) 1-0
- 5) 1. h5 (1. ♖f6 ♖h6 2. ♖e7 ♖g7 3. h5 1-0; 1. f5? gxf5 2. ♖xf5=) 1. ... gxh5 2. ♖xh5 ♖g7 3. ♖g5 ♖f7 4. ♖f5 ♖e7 5. ♖g6 1-0
- 6) Drawing
- 7) 1. b8♗+ (1. b8♗ ♗b6+ 2. ♗xb6+ ♖xb6=) 1. ... ♖b6 2. ♗xc6 ♖xc6 3. ♖c4 1-0
- 8) 1. ... ♖a8 2. ♖b6 a5 3. ♖xa5 ♖a7 4. ♖b5 ♖b7 ½-½
- 9) 1. ♖f4 (1. g8♗+? ♖xg8 2. ♖f4 ♖f8!) 1. ... ♖g8! (1. ... ♖xg7 2. ♖g5) 2. ♖f5! ♖f7! 3. g8♗+! ♖xg8 4. ♖g6 1-0
- 10) 1. a3 (1. ♖a3 ♖a5 2. d6 ♖b6 3. ♖b4 ♖c6 4. ♖a5 ♖xd6 5. ♖b6 1-0) 1. ... ♖c5 2. ♖a4 ♖xd5 3. ♖b5 ♖d6 4. ♖b6 ♖d7 5. ♖b7 1-0
- 11) 1. ♖h4 (1. ♖g4? ♖g6 2. ♖f4 ♖f6 3. ♖e4 ♖e6 4. ♖d4 b3! 5. cxb3 ♖d6=) 1. ... ♖g6 2. ♖g4 ♖f6 3. ♖f4 ♖e6 4. ♖e4 ♖d6 5. ♖d4 b3 6. cxb3 ♖c6 7. ♖c4 ♖b6 8. ♖b4 1-0
- 12) 1. ♖b1! (1. ♖c3? a3 2. b4 ♖e5 3. ♖b3 ♖d5 4. ♖xa3 ♖c6 5. ♖a4 ♖b6=) 1. ... a3 (1. ... ♖e5 2. ♖a2 ♖d5 3. ♖a3 ♖c5 4. ♖xa4 ♖b6 5. ♖b4) 2. b3! ♖e5 (2. ... ♖e6 3. ♖a2 ♖d6 4. ♖xa3 ♖c5 5. ♖a4 ♖b6 6. ♖b4) 3. ♖a2 ♖d5 4. ♖xa3 ♖c6 5. ♖a4! ♖b6 6. ♖b4 1-0

14 Mini plans / Pawn structure: A

- 1) 1. ... e4 (White's f-pawn remains an isolated double pawn. The moves 1. ... ♗xc3+ 2. bxc3 e4 3. 0-0-0 exd3 4. ♗he1+ ♖f8 gives Black advantage as well, but significantly less. Later the bishop can become useful and later ♗c6 can jump to b4.) 2. 0-0-0 exd3 3. ♗he1+ ♗e7 (3. ... ♖f8 4. cxd3 h5 5. h4 ♗e7) 4. cxd3 ♗b4 5. ♗c5
- 2) 1. ♗e5+ ♗xe5 (1. ... ♗e7 2. ♗f4 (2. ♗b8+ ♗d8 3. ♗xa7 is for the braves, Black has no compensation) 2. dxe5 ♗d5 3. ♗c4 (or 3. ♗xh5). An improved pawn structure and win or a pawn is the result.
- 3) 1. f4 (1. f3? g5). An easy exercise, but not for everybody. Two pawns play a role, on the de f-file (that is the reason that White can improve his pawn structure) and on the 4th rank (that's why 1. f3 is no possible). After 1. f4 the g-pawn is pinned, because after capturing and en passant the two pawns on the 4th rank disappear.
- 4) 1. a4 ♗d6 (1. ... ♗a3 2. ♗a1 ♗c2 3. ♗a2) 2. a5 ♗c7 3. a6. Making the opponent's pawn structure worse.
- 5) 1. dxc4 (1. bxc4 a5 resolves the double pawn but gives Black a passed pawn.
- 6) 1. b4. Prevents Black resolving his double pawn.
- 7) Drawing
- 8) 1. ... axb6 (Opening a file, the double pawn plays no negative role. Na 1. ... ♗xb6 2. ♗h3 Black is hardly better. Gaining time by the attack on a2 is important. All Black's pieces can become active now.) 2. a3 ♗d4 3. ♗d3 ♗f5 4. e4 ♗e6 5. ♖e2 ♗c4
- 9) 1. ♗xe5 ♗xe5 2. ♗d4 ♗xd4 3. cxd4. Improving the pawn structure.
- 10) 1. ♗a3 c5 2. ♗d5. Weakening the pawn structure of the opponent. The knight will get a square in the centre.
- 11) 1. c5! (1. a4 ♗d7! 2. ♗fb1 ♗xa4 3. ♗xb7 ♗xc3! 4. ♗d3 ♗c6) and now 1. dxc5 fails to 2. ♗fb1 ♗a4 ♗b5.

- 12) 1. ... ♗d5+ (not immediately 1. ... c4 while square the king can go to d4) 2. ♕f2 c4 3. ♙e2 c3 4. bxc3 ♗xc3.
Weakening the pawn structure of the opponent.

15 Mini plans / Pawn structure: B

- 1) 1. ♖b3 ♖xb3 (1. ... ♖a6 2. ♙xg7; 1. ... ♙d3 2. ♗fd1) 2. axb3 b6 (2. ... a6 3. ♙xg7) 3. ♗xa7 c5 4. ♗b7+ ♕c8 5. ♗a1 ♙d6 6. ♗a8+. Opening a line, the double pawn doesn't play a negative role. Gaining time is crucial.
- 2) 1. e5 dxe5 2. ♗d7 (or 2. ♗xe5) 2. ... a5 3. ♖xe5. Weakening the pawn structure of the opponent and the d-file will be opened. The rook can enter
- 3) 1. ... ♗b4 2. cxb4 ♖xc2 3. ♙xc2 ♙xc2. Weakening the pawn structure of the opponent and Black has the pair of bishops.
- 4) 1. ... 0-0 (After 1. ... ♖xf3 2. gxf3 ♗f6 3. 0-0-0 the double pawn is weak but White still has an extra pawn) 2. ♖xf6 ♗xf6 3. ♙e2 (3. f3 ♗e6+– 3. ... ♗e8+ 4. ♗e4!) 3. ... ♗xf2 4. ♗f1 ♗af8
- 5) 1. ... gxf6 2. ♗d2 f5. Opening the g-file is useful for Black. Black's double pawn controls centre squares.
- 6) 1. ♙f1 ♙e8 2. c4 (2. ♙b6 ♗f7 3. c4 ♗d6) 2. ... bxc4 3. ♙xc4+ (Resolving a double pawn)
- 7) 1. b4 ♖d6 2. bxc5 ♖xc5 3. ♖xc5 bxc5 4. ♗f3. Resolving a double pawn although White's position remains worse.
- 8) 1. ... a5 (Weakening the pawn structure of the opponent. A common way to shift the first pawn of the chain a2/b3/c4 to b3. Black can attack the b3-pawn, not the a2-pawn.
- 9) 1. ... gxf6 (1. ... ♗xf6 2. ♗xf7 ♕xf7 3. ♖xe6+ ♕g6 4. h5#; 1. ... ♖xf6 2. ♙xd5 exd5 3. ♗g6+ ♕d7 4. ♗xh8) A matter of elimination. Black must accept a weaker pawn structure, the lesser evil.
- 10) 1. ... ♖a6 2. ♖xa6 (2. ♗d1 ♖xd3+ 3. ♗xd3 ♗c2 4. ♗d2 ♗bc8) 2. ... bxa6 3. ♗c1 ♗xc1+ (3. ... a4) 4. ♙xc1 a4. Opening a line, the double pawn plays no negative role. Black gets the c-file or can easily resolve the double pawn.
- 11) 1. ♗b2 (1. a3 ♗b5 2. bxc4 ♗a5 3. ♗b2 ♕e7 and Black's pieces are active enough) 1. ... ♗b6 (1. ... cxb3 2. axb3 ♗b7 3. ♗c4 ♕e7 4. ♗a6 or 1. ... c3 2. ♗c4) 2. c3 ♗b5 4. b4 ♗d7 5. ♗xc4. White's active pieces give more than enough compensation for the (mostly temporarily) material disadvantage. White avoids at all costs weak double pawns.
- 12) 1. ... ♙e6 (1. ... ♙xf3 2. ♗xf3 ♗c8 3. ♙b3 0-0 4. ♗df1 ♖d6 5. ♕b1) 2. ♙xe6 fxe6. Black accepts a double pawn to limit White's activity. Black's position is worse but can be defended.

16 Pawn endings / Pawn races: A

- 1) 1. g7 a2 2. g8♖ a1♖ 3. ♖a8+ (2. ... ♕a3 3. ♖g7)
- 2) 1. f6 h3 2. f7 h2 3. f8♖ h1♖ 4. ♖b4# (4. ♖a8+? ♖xa8)
- 3) 1. d7 e2 2. d8♖ e1♖ 3. ♖a5+
- 4) 1. g6 h3 2. g7 h2 3. g8♖ h1♖ 4. ♖a2#
- 5) 1. b5 h4 2. ♕e4! h3 3. ♕f3 h2 4. ♕g2
- 6) 1. g6 b3 2. g7 b2 3. g8♖ b1♖ 4. ♖a8+ ♕b4 5. ♖b7+
- 7) 1. h6 b2 2. h7 b1♖ 3. h8♖+ ♕g1 4. ♖g7+ ♕f1 5. ♖g2+ ♕e1 6. ♖e2#
- 8) 1. ♕c3 (or 1. ♕d3 ♕a3 2. g7 b2 3. ♕c2 ♕a2 4. g8♖+) 1. ... ♕a3 2. g7 b2 3. g8♖ b1♖ 4. ♖a8#
- 9) 1. d6 ♕f6 2. d7 (2. h6 b3 3. d7 ♕e7 4. d8♖+ ♕xd8 5. h7 1-0) 2. ... ♕e7 3. d8♖+ ♕xd8 4. h6 b3 5. h7 b2 6. h8♖+
- 10) 1. h6 c3 2. h7 c2 3. ♕d2 ♕b2 4. h8♖+
- 11) 1. ♕g5 e4 2. h6 e3 3. h7 e2 4. h8♖ e1♖ 5. ♖h4+
- 12) 1. ♕d7 c4 2. a6 c3 3. a7 c2 4. a8♖+ ♕c4 5. ♖a3

17 Pawn endings / Pawn races: B

- 1) 1. ♕g7 (1. ♕g8? e4 2. h6 e3 3. h7 e2 4. h8♖; 1. h6? ♕f7) 1. ... e4 2. h6 e3 3. h7 e2 4. h8♖ e1♖ 5. ♖e8+
- 2) 1. a6 e3 2. ♕d3 ♕f3 3. a7 e2 4. a8♖+
- 3) 1. ♕b6 (1. ♕b5? f4 2. a5 f3 3. a6 f2 4. a7 f1♖+ 5. ♕b6 ♖f3) 1. ... f4 2. a5 ½-½
- 4) 1. ♕c6 (1. ♕d6? ♕c4) 1. ... g5 2. a5 g4 3. a6 g3 4. a7 g2 5. a8♖ g1♖ 6. ♖a7+
- 5) 1. ♕d6 b5 (1. ... ♕b8 2. ♕e7 b5 3. d6 b4 4. d7 b3 5. d8♖+) 2. ♕c7 b4 3. d6 b3 4. d7 b2 5. d8♖ b1♖ 6. ♖d4+ ♕a6 7. ♖a4#
- 6) 1. ♕g6 (1. d5? ♕f5; 1. ♕f6? h4 2. d5 h3 3. d6 h2 4. d7 h1♖ 5. d8♖ ♖h4+) 1. ... h4 2. d5 h3 3. d6 h2 4. d7 h1♖ 5. d8♖
- 7) Drawing
- 8) Drawing
- 9) 1. c6
- 10) 1. ♕c6 (1. ♕d6? ♕d8; 1. ♕b6 ♕d7 2. ♕b7 e5)

- 11) 1. ♖f2 ♗h2 2. h6 g3+ 3. ♖f3
 12) 1. ♖b6! ♗-♗; 1. ♖c6?

18 Pawn endings / Defending: A

- 1) 1. ... f6 (1. ... ♖f6? 2. g5+ hxg5+ 3. ♖g4 ♖g7 4. ♖xg5) 2. ♖e4 ♖e8 3. ♖f5 ♖f7
 2) 1. ♖b2 (1. b4? ♖c2!) 1. ... d4 2. b4 d3 3. b5 ♖e2 4. b6 d2 5. b7 d1♞ 6. b8♞
 3) 1. ♖d3 (1. ♖d5 ♖g6 2. ♖e6 ♖h5 3. ♖f6 ♖h4 4. ♖f5 ♖xh3 5. ♖xg5 ♖g3 6. ♖h5 ♖xf3 7. ♖h4 ♖g2 8. ♖g4 f3; 1. ♖d4 ♖g6) 1. ... ♖g6 2. ♖e2 ♖h5 3. ♖f2 ♖h4 4. ♖g2
 4) 1. ... g5 (1. ... g6 2. h6 g5 3. h7 ♖g7 4. ♖xg5 ♖xh7 5. ♖f5; 1. ... ♖e6 2. ♖g5 ♖f7 3. ♖f5) 2. h6 ♖g6 3. h7 ♖xh7 4. ♖xg5 ♖g7
 5) 1. h4! (1. c8♞+ ♖xc8 2. h4 ♖d7; 1. h3 ♖xc7) 1. ... gxh3 2. c8♞+ ♖xc8
 6) 1. ... ♖c5 (1. ... e5 2. g4 ♖c5 3. g5) 2. dxe6
 7) 1. f3 (1. ♖a3 g4; 1. f4 h4 2. gxh4 gxf4 3. h5 f3 4. h6 f2 5. h7 f1♞) 1. ... ♖d3 2. h4 gxh4 3. gxh4 ♖e3 4. ♖b2 ♖xf3 5. ♖c2 ♖g3 6. ♖d2 ♖xh4 7. ♖e2 ♖g3 8. ♖f1
 8) 1. ... f5+ (1. ... gxh5+ 2. ♖xh5 ♖b6 3. ♖g6 ♖b5 4. ♖xf6 ♖xb4 5. ♖e7 ♖c5 6. ♖e6 and White wins.) 2. ♖g5 gxh5 3. ♖xh5 ♖b6 4. ♖g5 ♖b5 5. ♖xf5 ♖xb4 6. ♖e4
 9) 1. a5 (1. c5+ bxc5+ 2. ♖c4 c6 3. dxc6 ♖xc6 4. ♖c3 ♖d5 5. ♖c2 ♖c4 6. a5 ♖b4 7. ♖b2 c4 8. ♖c2 c3 9. ♖c1 ♖xa5 10. ♖c2 ♖b4; 1. ♖c3 ♖c5 2. ♖b3 b5 3. cxb5 axb5 4. a5 (4. axb5 ♖xb5 5. ♖c3 ♖c5 6. d6 cxd6) 4. ... ♖xd5 5. ♖b4 ♖c6 6. a6 ♖b6 7. a7 c5+) 1. ... bxa5 2. c5+ ♖e7 3. ♖c4
 10) 1. ... ♖d7! (1. ... ♖e7 game *Kamali-Van Duyn Schagen, 2004* 2. ♖f5 ♖f8 3. ♖f6 ♖e8 4. e6 ♖f8 5. ♖e5) 2. ♖d5 ♖c7 3. ♖d4 (3. e6 f6 4. e7 ♖d7 5. e8♞+ ♖xe8 6. ♖c6 f5 7. ♖xb6 f4 8. ♖a7 f3 9. b6 f2 10. b7 f1♞ 11. b8♞+) 3. ... ♖d7 4. ♖e4 ♖e6
 11) 1. ♖h2! (1. ♖g2 ♖h4 2. ♖h2 f3 3. ♖g1 ♖xh3) 1. ... ♖f5 2. ♖g2 ♖e5 3. ♖f1 ♖f6 4. ♖g2 ♖f5 5. h4 ♖g6 6. ♖h2
 12) 1. ♖d6 (1. b3 ♖a5! 2. ♖xb7 ♖b4 3. ♖c6 a5 4. ♖b6 ♖xb3 5. ♖xc5 a4; 1. ♖b8 ♖b6 2. ♖a8 a5 3. ♖b8 ♖c6 4. ♖a7 (4. b3 b5) 4. ... a4) 1. ... b6 2. ♖c7 ♖a5 (2. ... b5 3. ♖c6! (3. cxb5+ ♖xb5)) 3. ♖b8

19 Tactics / Seventh rank: A

- 1) 1. ... ♞xe2 2. ♞xe2 ♞xh2+ 3. ♞xh2 ♞xh2#
 2) 1. ♞b1 ♗a6 2. ♞bb7 ♞c1+ 3. ♖h2
 3) 1. ♞h7 ♞b6 2. ♞eg7 ♞e6 3. ♞g8+ (3. ♞h8+) 3. ... ♞e8 4. ♞xe8+ ♖xe8 5. ♞h8+
 4) 1. ... ♞ee2 2. ♞d1 ♞xg2+ 3. ♖f1 ♞ef2+ 4. ♖e1 ♞g1#
 5) 1. c4 ♗xc4 2. ♗f1 ♗xf1 3. ♞xf7+
 6) 1. ♞f7 ♞g8 2. ♞xg7 ♞xe5 3. ♞xh7#
 7) 1. ♞e8 ♞xe8 (1. ... ♖g8 2. ♞xd8) 2. ♗d4+ ♖g8 3. ♞g7+ ♖h8 4. ♞xg6+
 8) 1. ♞c7+ ♖d8 2. ♗c6+ ♗xc6 3. ♞b7+ ♖c8 4. a8♞#
 9) 1. ♗h7+ ♖g8 2. ♗d5+ ♖h8 3. ♗f8 h1♞ 4. ♗xg6#
 10) 1. ♞de7+ ♖d8 2. ♞h7 a2 3. ♞eg7 a1♞ 4. ♞h8#
 11) 1. ♗b2 ♞c2 2. ♗a3+ ♖g8 3. ♗e7 (3. ♞aa8? ♞f6 4. ♞xe8+ ♖h7; 3. ♞e7 ♞xe7 4. ♗e7 f6) 3. ... ♞e5 4. ♞xe8+ ♖h7
 12) 1. ♗g5 h6 2. ♞f6 ♗xd7 3. ♞xh6#

18 Strategy / Seventh rank: A

- 1) 1. ♞d7 ♞b8 2. ♗d6
 2) Drawing
 3) 1. ♞d8+ ♖h7 2. ♞d7
 4) 1. ♞c4 Δ 2. ♞c7
 5) 1. ♞ad1 ♞d5 2. c4
 6) 1. ♗b6
 7) 1. ... ♞g8
 8) 1. ... ♞e8+ Δ 2. ... ♞e7
 9) 1. ... ♞e8 Δ 2. ... ♞e7
 10) 1. ... ♞c8 Δ 2. ... ♞c7
 11) 1. ... ♞c8 Δ 2. ... ♖f8 Δ 3. ... ♖e8
 12) 1. ... ♞c8 2. ♞xb7 ♞c1+ 3. ♖g2 ♞c2+

21 Discovered attack / Clearing: A

- 1) 1. ♞xd7 (1. ♗g6+ fxc6 2. ♞xd7 ♞a8) 1. ... ♞xd7 2. ♗g6+

- 2) 1. ... ♖xd5 2. cxd5 exf4
- 3) 1. ... ♗g3+ 2. hxg3 ♕xg2+ 3. ♜xg2 ♖xd4
- 4) 1. e5 ♗xe5 2. ♗xe5 ♕xe5 3. ♕xa8
- 5) 1. ... ♖xe3 2. fxe3 ♗f3+
- 6) 1. ♖xc6+ bxc6 2. ♕h3+
- 7) 1. ... ♗fd7 2. ♖b4 e4
- 8) 1. d7+ ♗bxd7 2. ♗d6+ ♕xd6 3. ♕xa6
- 9) 1. ♕xc7 ♖xc7 2. ♗b5 ♖b6 3. ♖xg4
- 10) 1. ♗f6+ (1. ♗g5 ♖xc2 2. ♖h5 ♕xg5 3. ♕xf7+ ♜h8 4. ♕xe8 ♖xe8) 1. ... gxf6 2. ♕xf7+ ♜xf7 3. ♖xa4
- 11) 1. ♕xf6 ♕xf6 2. ♗g5 ♕xg5 3. ♕xb7
- 12) 1. ... ♖xa1 2. ♖xa1 ♕h2+ 3. ♜xh2 ♖xa8

22 Discovered attack / Eliminating the defence: A

- 1) 1. axb7 ♖xb7 2. ♗xf6+
- 2) 1. ... ♕f2
- 3) 1. ... ♖xd2 2. ♖xd2 ♕b5+
- 4) 1. ... f5 2. ♕xc6 (2. ♕f4 ♖d8 3. ♖ad1 fxe4 4. ♖xe4 ♖d5) 2. ... ♕xf2+
- 5) 1. ♗f5+ (1. ♖xg6+ ♜xg6 2. ♖xe7 ♖f1#) 1. ... gxf5 2. ♖g6+ ♜xg6 3. ♖xe7
- 6) 1. ♖xd4 cxd4 2. ♖g3+
- 7) 1. ♗d8 h6 (1. ... ♖xd8 2. ♖e8+ ♖xe8 3. ♖xe8#; 1. ... ♕xd8 2. ♖e8#) 2. ♗xb7 ♖xa4 3. bxa4
- 8) 1. ... b5 2. ♗a5 ♗e4+
- 9) 1. ♕xc6 ♕xc6 2. ♗d5
- 10) 1. ... ♖c3 (1. ... ♖b4 2. ♖a1) 2. ♗b3 ♗f3+
- 11) 1. b5 ♖c5 2. ♗h5+
- 12) 1. ... ♗e1 2. ♖xf7 (2. ♖xe1 ♖xf2 3. ♖g1 ♖f1) 2. ... ♖f1+ 3. ♖xf1 ♖xf1#

23 Discovered attack / Eliminating the defence: B

- 1) 1. ♖xe5 (1. ♗xf6+ ♕xf6) 1. ... dxe5 2. ♗xf6+
- 2) 1. ♗xd6+ cxd6 2. ♖c8+ ♖xc8 3. ♖xb5+
- 3) 1. ♖xc7+ ♜xc7 2. ♖c5+
- 4) 1. f4 ♕d6 (1. ... ♕a1 2. ♖b1) 2. ♖b2+ ♜f7 3. ♖xc5
- 5) 1. ♖xe6+ fxe6 (1. ... ♕xe6 2. ♕b5+) 2. ♕xg6+
- 6) 1. ... ♖xf1+ 2. ♕xf1 ♕xa2+
- 7) 1. b4 cxb3ep 2. ♕xg7+
- 8) 1. ... g5 2. ♕e3 ♗g3+
- 9) 1. ... ♕xe5 2. dxe5 ♖c5+
- 10) 1. ♖xh6 gxh6 2. ♗f7+ ♜g8 3. ♗xh6#
- 11) 1. ♗g5 f6 2. ♕c4+
- 12) 1. ... ♖xf3 2. gxf3 exd5

24 Discovered attack / Setting up a battery (chasing): A

- 1) 1. ... ♗c7+ 2. ♜a5 ♗xd5+ 3. ♜b5 ♗c3#
- 2) 1. ... ♖h8+ 2. ♜c7 ♗e8+ 3. ♜b7 ♖xe5
- 3) 1. ... ♖d3+ 2. ♜g2 ♗f4+ (2. ... ♗e3+? 3. fxe3+)
- 4) 1. ... ♗c2 2. ♖b1 ♗e1
- 5) 1. ... ♕d4 2. ♖d2 ♕xg1
- 6) 1. ♗c8+ ♜a8 2. ♗e7+ ♜a7 3. ♗xc6#
- 7) 1. ♕e7 ♖e8 2. ♕b4
- 8) 1. ... ♖e2+ 2. ♜h3 ♖f1+ 3. ♜g4 ♖xf4+ 4. exf4 ♖xb5
- 9) 1. ♗c5 ♖b6 2. ♗xd7
- 10) 1. g3 ♖h3 2. g4
- 11) 1. ... ♖b4 2. ♖a3 ♖g4 3. ♖b3 ♖xg5
- 12) 1. ... ♖f1+ 2. ♜h4 (2. ♜g3 ♖f3+ 3. ♜h4 ♖g4#) 2. ... ♖f4+ 3. ♜h5 ♕f3+ 4. ♜g6 ♖xd4

25 Pin / Clearing: A

- 1) Drawing
- 2) Drawing
- 3) 1. c4 bxc4 2. ♗c3

- 4) 1. e6 fxe6 (1. ... ♖xe6 2. ♖xb4) 2. ♗e5 ♖d6 3. ♗xc6
- 5) 1. ♕d1 ♜5h6 2. ♜b3
- 6) 1. ♗xc6 bxc6 2. ♕xe5
- 7) 1. e6 fxe6 2. ♗e5
- 8) 1. c5 bxc5 2. ♕b5 ♗e4 3. ♗xc6 ♗xc3 4. ♗xb4+
- 9) 1. d5 ♜gd8 2. ♖d4
- 10) 1. ... ♕xe2 2. ♜xe2 ♜xb3
- 11) 1. ... ♗d2+ 2. ♗xd2 ♜xf7
- 12) 1. ... ♗xc3 2. bxc3 ♖xd4

26 Pin / Eliminating the defence: A

- 1) 1. ♜xe7 ♜xe7 2. ♕xf6
- 2) 1. ... b3 2. axb3 ♗d8
- 3) 1. ... ♕xf3 2. gxf3 e5
- 4) 1. ♕xe7 (1. ♜e1? ♗c5) 1. ... ♜xe7 2. ♗d6
- 5) 1. ♗d5 ♗xd5 2. ♕b5
- 6) 1. ... ♗e5 2. ♖e2 (2. ♗f6+ ♕xf6 3. ♖xd5 ♜xd5) 2. ... f5
- 7) 1. ♜b6 (1. ♜a7? ♗c7) 1. ... ♗c5 2. ♜bb8 ♗d7 3. ♜xd7
- 8) 1. ... ♜g8 2. ♖c5 ♜xd3
- 9) 1. ... ♕b2 2. ♜c2 ♕d4
- 10) 1. ♖xe7 ♜xe7 2. ♕f5
- 11) 1. ♜xd4 exd4 2. ♖f5 (2. ♖e4 ♕xd5)
- 12) 1. ... ♗c4 2. ♜xc4 ♖xe5

27 Pin / Eliminating the defence: B

- 1) 1. ♜xe6 fxe6 2. ♜f3
- 2) 1. ♜xe4 dxe4 2. ♕c4
- 3) 1. ... ♗xd4 2. exd4 ♕h6
- 4) 1. ♗d6+ ♕xd6 2. ♖xf5
- 5) 1. ♗h6+ gxh6 2. ♜g3
- 6) 1. ... ♕xc4+ 2. bxc4 ♜b2
- 7) 1. ♗xe5+ fxe5 2. ♕g3
- 8) 1. ♕e4 ♜d2 2. ♜c1
- 9) 1. ♖f5 ♗f6 2. h5
- 10) 1. b4 ♕b6 (1. ... ♕xb4 2. ♕xb4) 2. ♜c4
- 11) 1. ♖c3 f6 2. ♕c4
- 12) 1. ... ♗g3+ 2. hxg3 ♖h5+ 3. ♗h2 ♖xe2

28 Pin / Targeting: A

- 1) 1. ♜e8+ ♗h7 2. ♖xf5+ ♕xf5 3. ♜xa8
- 2) 1. ♖b1+ ♗h8 2. ♖a2
- 3) 1. ... ♖c5 2. ♕b3 e5
- 4) 1. ... e4 2. ♗g5 e3
- 5) 1. ♖c8+ ♗e7 2. ♜xd5
- 6) 1. b4 ♗a4 2. b5
- 7) 1. ♖b7 ♜f8 2. b5
- 8) 1. ... ♜a8 2. ♖xb6 ♕xb3
- 9) 1. ♕b3 ♜d8 2. ♖xe4
- 10) 1. ♗e3 ♖a8 2. ♗c2
- 11) 1. ♗c4 ♖f8 2. ♗b6 (2. ♗e3? ♗xe3 3. ♖xd8 ♗xd1)
- 12) 1. ♖e4+ (1. ♜b7? ♖xb7) 1. ... ♗h8 2. ♜b7

29 Pin / Attacking a pinned piece: A

- 1) 1. ... ♕e8 2. ♖xc7 ♕xb5+
- 2) 1. ... ♜d6 (1. ... ♜ac8 2. ♜xc8; 1. ... ♜a6 2. ♜e6 (2. ♜dc1? ♜c8) 2. ♜dc1 ♜c8)
- 3) 1. ... ♖d5 2. ♕xh3 (2. ♜g1 ♖f3) 2. ... ♖f3
- 4) Drawing
- 5) Drawing

- 6) 1. ♖d4 ♗a6 2. b4 ♕xd4 3. ♜c8+ ♗d8 4. ♜xd8+ ♖f7 5. ♜xd4
 7) 1. ♖d4 a5 2. c4 a4 3. c5+ ♖b5 4. ♕xc7 a3 5. ♖c3 (5. ♕e5? a2 6. ♖d3 ♖xc5
 7. ♖d2)
 8) 1. ... ♗d7 2. ♜d6 ♗b8 3. ♜xe5+ f6
 9) 1. ♗e7+ ♖h8 2. ♗c6
 10) 1. ♕b6! (1. c3? ♕e5 2. ♜xd5 exd5 3. ♕b6 ♖d7 (3. ... ♜e7 4. ♕d4 (4. ♕c5 ♜c7); 1. ♜e4? ♕e5=) 1. ... e5
 2. ♜xd4! (2. ♕xd4? ♜ed8!))
 11) 1. ... ♗c5 2. ♜e3 ♗xe4 (2. ... ♜xd4 3. ♗f6+) 3. ♜xe4 ♜xd4
 12) 1. f4 ♜hf8 (1. ... ♜bf8 2. ♜e6) 2. ♜e6

30 Opening / Choose the best move: A

bold = correct move

bold + italic = acceptable move

1) **1. e4-e5**

The recommended move (theory as it is called). It is clear that White has played the ♗d4xc6 the previous move. The consequence is the advance of the e-pawn. The condition is that White knows sufficient theory. The main line continues 1. ... ♜e7 2. ♜e2 ♗d5 3. c4 ♕a6. The pieces of both White and Black are somewhat in the way. Resolving that without sufficient knowledge is a bridge too far for a student of the 5th step.

1. ♗b1-c3

A safe move, even with insufficient theoretical knowledge. White abandons the hope for advantage. Black plays 1. ... ♕b4 2. ♕d3 d5. Both sides can finish the opening with normal healthy moves.

1. ♕c1-g5

The pin is harmless. Black plays 1. ... h6

2) 1. ... ♕f8-e7

Not good. White does play 2. e5 now Black has to sacrifice a pawn with 2. ... ♗d5. Returning to g8 is hardly an option. White develops with 3. ♕d3.

1. ♕f8-b4

The theoretical move. Healthy development because the advance e5 is out of the question (2. e5 ♜e7). Capturing on c3 is not directly intended but White is forced to protect e4 with 2. ♕d3 (2. ♜d4 ♜e7).

1. ... d7-d5

Just possible. Black must play accurately. See next position.

3) 1. ♕f1-d3

A development move but harmless. Black also develops with 1. ... ♕b4 or 1. ... ♕d6.

1. e4-e5

Not to be recommended. See position 5.

1. e4xd5

The best move although Black is not really worse. See next position.

4) 1. ♕f1-d3

Black can position his pieces relatively active. He starts with 1. ... c6 and after 2. 0-0 ♕d6. A check is not scary: the bishop from c8 can go to e6. In such positions the knight on c3 is a bit clumsy placed. It looks at the protected centre pawn on d5.

1. ♕f1-b5+

A quick development is needed. Black holds with 1. ... ♕d7 2. ♕xd7+ ♜xd7 3. 0-0 ♕e7 4. ♕g5 c6 5. ♕xf6 ♕xf6 6. ♜e1+ ♕e7 7. ♜e2. White's play is based on preventing castling but that doesn't work. Black can choose from 7. ... ♜c8 (♜c7 - 7. ... ♜b8 8. ♜e5 is a mistake) or 7. ... f5 to play ♖f7.

1. ♕c1-g5

Not dangerous. Black plays 1. ... c6 and 2. ... ♕e7. Black has a centre pawn!

5) 1. ... ♜d8-e7

White can protect the pawn on e5 easily with 2. f4 and then the queen on e7 is in the way of the bishop.

1. ... ♗f6-d7

Not bad but 2. f4 is sufficient.

1. ... ♗f6-g4

After this move it is White who has trouble to keep equal chances (if possible). See next position.

6) 1. ♕c1-f4

Black gets an advantage with 1. ... f6 2. ♜e2 ♕c5 or 2. exf6 ♜xf6 a position that will come back later.

1. ♜d1-e2

This move fails because of 1. ... ♕c5 2. ♗d1 0-0. White will not have the time to chase away the knight from g4.

1. ♜d1-d4

Absolutely necessary. The black bishop must be kept away from c5. Attacking e5 is the best Black can do:

1. ... ♖e7 2. ♗f4 f6 3. 0-0-0 fxe5 4. ♖a4.

7) **1. ... ♗f8-c5**

A good developing move but it allows White time to play 2. ♗g3. It is remarkable that there is not really anything working for Black: After 2. ... f6 3. ♗a4 or 2. ... ♖e7 3. 0-0 ♗xe5 4. ♗xd5 or 2. ... 0-0 3. ♗e2 ♖g5 4. 0-0 ♗xe5 5. ♗a4 ♗d7 (removes f4 from the position) 6. ♗xc5 ♗xc5 7. ♗xc7.

1. ... f7-f6

Gives an advantage. White must take not to lose a pawn but after 2. exf6 ♖xf6.

1. ... ♖d8-e7

Disapproved. White plays 2. ♗e2 ♗xe5 3. ♗xd5. Difficult to see. On the other hand the queen on e7 is placed clumsy so examining other moves first is a better option.

8) **1. ♗c3-a4**

Bad. The knight is unprotected. A pawn is lost after 1. ... ♗xf2+ or 1. ... ♗xf2. After some captures on f2 3. ... ♖h4+ will follow.

1. ♗f1-e2

Forces Black to protect his and the bishop move closes the e-file so that 1. ... ♗xe5 doesn't work.

1. h2-h3

With the king in the middle a pin on the e-file is no rarity. Black can play 1. ... ♗xe5 2. ♗xe5 ♖e8. White cannot play 3. f4 because of 3. ... ♖xe5+.

9) **1. ♖d1-d2**

Usually the normal move but here the pressure on f2 is too powerful after 1. ... 0-0.

1. ♖d1-e2+

Putting the queen on the same file as the king doesn't look right but it is as good as the next possibility. After

1. ... ♗f7 (1. ... ♗d8 2. 0-0-0 and the black king is badly placed after 2... ♖e8 3. ♖c3 or 2. ... ♗xf2 3. ♗xd5) White must continue with 2. ♖f3.

1. ♖d1-f3

Exchanging queens is the lesser evil. After castling kingside Black has the more active position.

31 Opening / Choose the best move: B

1) **1. ... ♗xb3** a necessary intermediate move 2. axb3 exd4.

1. ... exd4? fails to the double attack 2. ♖e1+.

1. ... ♗b6 costs a pawn although black gets some play (White hasn't quite finished development yet), both after 2. dxe5 as well after 2. ♖e1 0-0 3. dxe5 dxe5 4. ♖xe5) 2. ... dxe5 3. ♗xe5 0-0-0 4. ♖g4+ ♗b7 5. ♗d7.

2) **1. ... d4** fine because the knight doesn't have a good square to go to. (2. ♗b1 ♗b4+ 3. ♗d2 dxe3) 2. exd4 after the alternative, Black can weaken the white pawn structure. 2. ... exd4 3. ♖e2+ (3. ♗b5 ♗b4+ 4. ♗d2 ♖e7+ 5. ♖e2 ♗xd2+ 6. ♗xd2 ♗e6) 3. ... ♗e7 4. ♗e4 0-0 5. ♖d3 ♗xe4 6. ♖xe4 ♗b4+.

1. ... ♗b4 White can largely limit the disadvantage with 2. cxd5 ♗xd5 3. ♗d2 and the same goes for the third choice ♗e6.

1. ... ♗e6 2. cxd5 ♗xd5 3. ♗d2.

3) **1. ... c6** Black has several good moves, logical because White is attacking with too few pieces. Chasing back pieces is a good strategy. Black only has to calculate that 2. ♗c7+ (2. ♗b6 ♖xb6) 2. ... ♖xc7 3. ♖xf7+ ♗d8 is harmless. Other acceptable moves are 1. ... f6 and 1. ... ♗h6. White must take care of his knight on d5.

1. ... ♗gf6 wins no tempo because White just trades. After 2. ♗xf6+ ♗xf6 3. ♖b3 ♖e7 there's nothing wrong. Equal position.

1. ... ♗d6 This move is no good. White wins material with the discovered attack 2. ♗b6 (don't greedily take a pawn with 2. ♗xc7+ because of 2. ... ♖xc7 3. ♖xf7+ ♗d8 4. ♖g7 ♗df6 5. ♖xh8 ♖xc4 and White is completely undeveloped) 2. ... ♗gf6 3. ♗xa8.

4) **1. ♗xe5** necessary because after other moves Black has no problems (to blame is the passive development of the bishop to e2) 1. ... ♗xe5 2. d4 ♗d6 3. f4 ♗c6 4. e5 and now White's a little better after 4. ... ♗b4 5. exf6 ♖xf6 6. ♗b5 ♗a5 7. c3. The bishop on a5 has little future for the time being.

1. ♗a4 White wants to exchange the bishop, but it takes time. Black can play 1. ... ♗e7 and continue developing. The knight has to go back sometime. Sharper is 1. ... ♗xe4 2. d3 (or 2. ♗xc5 ♗xc5 3. ♗xe5 ♗xe5 4. d4 d6 with insufficient compensation for the pawn) 2. ... ♗xf2 3. ♖xf2 ♗xf2+ 4. ♗xf2 d5. Usually the exchange of two light pieces for rook and pawn is not good because all active pieces disappear from the board. This is different here because of the strong centre and the low activity of all white pieces.

1. d3 Black can become active with 1. ... d5. White has developed his f1 bishop too passively.

5) **1. cxd5** The black advance d5 in the centre is not to be punished, in fact white may be glad that the disadvantage remains within the limits. 1. ... exd5 2. exd5 ♗b4 and now only 3. d6 avoids a clearly worse position. 3. ... ♖xd6

4. ♖x6 5. ♗xb6 and Black must first regain his pawn with 5. ... ♗fd5 6. ♗f2 ♗xc3 7. bxc3 ♖xe2. Better is 3. ... ♗f8 4. ♖ad1 ♗bd5 5. ♗xd5 ♗xd5 6. ♗f2 ♖xd6. There's not much going on, although a grandmaster will say, "I'd rather have black."

1. ♖fd1 Thoughtless development costs a piece: 1. ... d4.

1. ♗c2 Black can worsen white's pawn structure with 1. ... dxe4 because 2. ♖xd8 ♖axd8 3. ♗xb6 ♖d2 is not possible.

6) 1. ♗xe4 That's not the first move you're looking at, but it's relatively the best option. Black can develop further with 1. ... 0-0 (preferably not 1. ... ♗xe4 2. fxe4 and square f3 is cleared for the knight.) or play active with 1. ... ♖b6 (capturing on b2 and e5 becomes a possibility). After 2. ♖b1 0-0 Black is better.

1. ♗xe4 This costs surprisingly a pawn after 1. ... ♗xe4 2. ♗xe4 f5 3. ♗d3 ♗xd4.

1. fxe4 ♗g4 wins a pawn with a good position.

7) 1. ... f5 Chasing the knight away the hard way is good (1. ... ♗f6? 2. ♗g5). Na 2. ♗c3, Black should be careful that White cannot not push d4 too easily, so 2. ... ♗c6 (2. ... ♗f6 3. ♗f3 ♗d6 4. d4). The knight move also makes e4 possible after 3. ♗f3 e4 4. ♗g5 ♗e5.

1. ... ♗c6 Playable. White develops further with 2. ♗f3 ♗e7 3. d3 and plays ♗e4 back to g3 when it's attacked by a piece.

1. ... ♗f5 Abandons the protection of b7 and White can become active with: 2. ♖f3 ♗g6 3. ♗g5 ♗f6?

(3. ... ♗h6 is better but gives insufficient compensation after 4. ♖xb7) 4. ♖b3 and wins and is therefore better than 4. ♖xb7 ♗bd7 5. ♖b3 ♖e7.

8) 1. ♗f5 Direct action gives an advantage. 1. ... ♖f8 (1. ... exf5 2. ♖e1 ♗e5 3. ♗f3) 2. ♗c4 ♗c7 (2. ... ♗e7 3. b3) 3. ♖e1 ♗c6 4. ♖xd5.

1. ♗e4 0-0 (1. ... ♗e5 2. ♗f3 ♗c7 3. ♗g5 is less good) and White is a little better after 2. c4 ♗f6 3. ♗xd6 ♖xd6 4. ♗b5. In the endgame, White has the majority on the queenside although realizing such an advantage requires technique. White also has a bishop who can easily work on two wings.

1. c4 ♗f6 White weakens its pawn structure and that is no match for chasing the knight out of the centre. On f6 the knight defends. Furthermore, the pawn deprives square c4 of the knight.

9) 1. ... 0-0 Developing is the right plan. Castling is more useful than the knight move to c6. After 2. c4 ♖a5+ 3. ♗d2 ♖a4 White is a little better because of the pair of bishops. At Step 5 level it is certainly not a deadly weapon because the realisation requires a lot of technique.

1. ... ♗b5 is a blunder because with luring White wins material thanks to an X-ray attack: 2. c4 ♗xc4 3. ♗xc4 (but not 3. ♖a4+ b5) 3. ... ♖xc4 4. ♖c1.

1. ... ♗c6 2. c4 ♖a5+ 3. ♗d2 followed by 0-0 and ♗d3. White has the centre, the pair of bishops and more space, so more possibilities for his pieces.

10) 1. d5 White must take immediate action. 1. ... ♗xf3 (The pawn move is possible because 1. ... ♗xe5 2. ♗xe5 ♗xd1 3. ♗b5+ ends wrong.) 2. ♖xf3 ♗xe5 3. ♗b5+ ♗d7 4. 0-0 f6 5. ♗f4 (5. ♗a3 b6 6. ♖ae1 e5 7. ♖xe5+) 5. ... a6 6. ♗d3 g6 7. ♖ae1.

1. ♖b1 Not really a gain of tempo because the answer is equally useful. 1. ... ♖c7.

1. ♗e3 Protecting the pawn is too tame. Black can develop further with 1.... e6 but also 1. ♖a5 is a good reaction.

11) 1. ... ♗e4 2. f3 (after 2. c3, 2. ... ♗d5 is correct; 2. ... ♗xh1 3. ♗xf7 gives white advantage) 2. ... ♖xd4.

1. ... ♗h7? has a simple refutation 2. ♗xf7 ♗xf7? 3. ♖xe6+ ♗g6 4. ♗d3#.

1. ... ♗xg4 costs a piece after 2. ♗xg4 ♖xd4 3. f3 or 3. ♗e3.

12) 1. ♗b3 White should prevent Black from playing c5 or e5. That gives him more space. 1. ... e5 (1. ... c5 2. ♗xc5) Now after 2. dxe5 ♗xe5 the d-pawn is hanging: 3. ♖xd5+. Insertion of 1. a5 2. a4 does not change much.

1. ♗d3 is awkward because Black can play 1. ... e5 (better than 1. ... c5 2. dxc5 ♗c6) 2. dxe5 ♗xe5 and White is in trouble with the king in the middle (3. ♗xe5 ♖xf2# is not possible, of course).

1. c3 ♗c6 But not 1. ... e5 2. ♗d3 exd4 (2. ... e4 3. ♗xe4 dxe4 4. ♖b3+ ♖f7 5. ♗xe4) and White has to play 2. ♗b3 after all.

32 Opening / Choose the best move: C

1) 1. ♗a3 1. ... ♗xe5 (1. ... a6 2. ♗ac4 ♗c6 3. ♗g3! On immediately 3. ♗xd6+? ♖xd6 4. ♗g6, 4. ... ♖xd4 is very strong. White loses material - the knight on h8 is always lost.) 2. dxe5 ♗d5 3. ♗b5 and the knight enters. On 3. ... ♖d7 follows 4. ♗d6+ ♗f8 5. ♗e3. White has a big advantage of course.

1. ♗c3 From c3 only ♗b5 threatens and that is easy to parry. It is not always best to have a knight on c3.

1. c3 leads to an isolated pawn. Good if White would have attacking chances but there is no chance of that. There are too few pieces left, so the d-pawn is only a weakness: 1. ... cxd4 2. cxd4 ♗c6.

2) 1. ♖g4 After other developing moves Black can castle and although White is better (more space), in the right moment Black will come with c5. 1. ... ♗f8. Losing the right to castle is a permanent disadvantage (the black king

is more vulnerable and it is difficult to bring the h-rook into play) 1. ... ♖f6 2. ♗xg7 ♕g8 3. ♗xf6+) 2. ♖e1 because 2. ... f5 is no threat because of 3. ♗f3. Black remains on c8 with a passive bishop.

1. ♕f4 0-0.

1. ♗f3 0-0.

3) **1. ... e6** Black hasn't finished his development yet, but he has to be careful. The pawn move closes in the bishop on c8 but otherwise 2. d5 will follow. On the next move, ♗c6 is a good move.

1. ... b5 2. ♕d5 (2. ♕xf7+ is the better possibility which requires some calculation but there is no danger for White, since the move does not really cost material, no risk: 2. ... ♖xf7 3. ♗e5 e6 4. ♗xf7 ♖xf7 5. ♗e4 ♕d7 6. ♗g5+) 2. ... ♗xd5 3. ♗xd5.

1. ... ♗c6 2. d5 ♗a7 3. ♖fd1 b5 4. ♕e2 ♕b7 The knight on a7 is rather passive. 5. ♗e5 looks at square c6 (when black plays his knight to c8) and frees up f3 for the bishop. 5. ... ♗c8.

4) **1. g4** The weakened black pawn structure and the king in the middle allow a direct punishment. 1. ... ♕d7 2. ♕d3 ♕g7 3. ♖xh7.

1. ♗d2 White retains the advantage, but Black is still in the game: 1. ... ♗c6 2. 0-0-0 ♕g7.

1. ♗ge2 Delays development and takes time. After 1. ... ♕g7 2. ♗g3 ♗d7 Black Black can continue with ♗c6 and 0-0-0.

5) **1. ... ♗a5** The unpinning of ♗f6 goes with tempo 2. ♗c2 (2. ♖c1 dxc4) 2. ... ♗e4.

1. ... 0-0 2. ♗b3 or 2. 0-0.

1. ... dxc4 (hoping for 2. ♕xc4 ♗a5) but 2. ♕xf6 solves the problem.

6) **1. ... d5** A tactical solution to develop with tempo. After 2. ♗xd5 (2. ♗a4 ♕d7) 2. ... ♗b4+ 3. ♕d2 ♗xb2 4. ♕c3 (better 4. ♕b5 ♕d7 but Black is better.) 4. ... ♕b4

1. ... f6 White develops with tempo: 2. ♗c3 fxe5 3. ♗d5 ♗d6 4. 0-0-0 with a huge development advantage.

1. ... d6 is better, but now 2. ♗c3 follows (2. ♕b5 gives Black time 2. ... ♕d7 3. ♗c3 and now no 3. ... dxe5 4. ♗d5 but 4. ... 0-0-0).

7) White is a pawn down but the black queen is vulnerable in the line of the rook and she has to protect squares d6 and f6. White has more good moves but opening the position is by far the best.

1. d4 cxd4 (1. ... ♗xd4 2. ♗d6+ ♖f8 3. ♕h6+ ♖g8 4. ♗f3 ♗xd6 5. ♗f6 ♗d4 6. ♗xe7) 2. ♕g5.

1. ♗f3 f5 2. ♗c3 ♗xc3 3. ♗d6+ ♖f8 4. dxc3 h6 5. ♕e3 White wins back the pawn and stands better.

1. d3 d5 2. ♗xc5 ♗d6 (2. ... ♗d4 3. ♗b3 and 4. d4 and the knight comes to c5) 3. d4 all white pieces are good.

8) **1. ♗e4** 1. ... ♗a6 (1. ... b6 2. c5 bxc5 3. ♕e3).

1. ♕g5 is only fun when Black takes: 2. ♗xb7 but he plays 1. ... f6 2. ♕e3 f5 and all plans with ♗e4 are no longer possible.

1. 0-0 too quiet. After 2. ... ♗h6 (2. ... ♗f6 3. ♕g5 ♗c7 is less good) Black can castle.

9) **1. ... d5** In positions with the king in the middle and a development deficit, an open e-file is easily disastrous.

Returning material with tempo is then necessary.. 2. ♕xf6 ♗xf6 3. ♗xf6 gxf6 4. ♕xd5 and black survives. Also 2. ♖e1+ ♕e6 3. ♕xf6 gxf6 gives no advantage.

1. ... ♕e7 Slowly preparing castling is less good. After 2. ♕xf6 gxf6 (2. ... ♕xf6 has a bad ending after 3. ♖e1+ ♖f8 4. ♗d5; also 3. ... ♕e7 4. ♗xg7 ♖f8 5. ♗c3 with the threats ♗d5 and doubling rooks on the e-file.

Material is equal!) 3. ♖e1 Black has to give back a pawn with 3. ... d5 (3. ... 0-0 4. ♗g4+ ♖h8 5. ♕d3 d5 6. ♗h4) 4. ♕xd5 (4. ♗xf6 ♖f8 is disappointing because 5. ♕xd5 does not work because of 5. ... ♕e6) 4. ... ♕e6

5. c4 c6 6. ♗c3 and White keeps attacking.

1. ... d6 isn't really useful. White gets the advantage with 2. ♖e1+ ♕e6 3. ♕xe6 fxe6 4. ♖xe6+ ♖f7 5. ♖e3.

10) White can win pawn d4. What brings the best position?

1. ♕e2 h6 (Or 1. ... ♗e4 2. ♕f4 ♕f6 3. 0-0 and now, for example after 3. ... g6 4. exd4 ♗xd4 5. ♗xd4 ♕xd4 6. ♕f3 White always gets his pawn back while maintaining active play) 2. ♗xd4.

1. ♕d3 is not bad either, but White has to give up the bishop of the black squares and that is a pity: 1. ... h6

2. ♕xf6 ♕xf6 3. 0-0 ♗d6 4. b4 ♖ad8.

1. ♗xd4 is the wrong choice: 1. ... ♗xd4 2. ♖xd4 ♗xd4 3. exd4 ♕b4+ 4. ♖d1 ♖e1#.

11) **1. ♗xe4** is clearly the only move. After 1. ... dxe4 2. ♗d2 h6 3. ♕h4 g5 4. ♕g3 f5 5. e3 ♗f6 6. ♕c4 White will proceed with f3.

1. ♕f4 Not good because after 1. ... ♗xc3 2. bxc3 e6 3. e3 c5 it is Black who is better.

1. ♗xd5 costs a piece in a simple way: 1. ... ♗xg5 2. ♗xg5 e6.

12) **1. ♕g5** Not for lazy calculators but the best. 1. ... ♕xf3 (1. ... f6 2. ♗xe5; 1. ... ♗de7 2. ♗bd2) 2. ♗xf3 ♗xg5 3. ♕xd5 0-0 4. ♕xc6 bxc6 5. ♗xc6 is a fairly healthy pawn gain.

1. ♕b5 0-0 (1. ... f6 2. ♗xe5) 2. ♕xc6 bxc6 3. h3 is enough for equality. More dangerous is 3. ♖xe5 ♗d6 with play for the pawn.

1. ♗xe5 seems nice and wins in all cases except after 1. ... ♕xf2+ 2. ♖xf2 (after other king moves 2. ... ♕xd1 will be the answer) 2. ... ♗h4+ and because 3. g3 ♗xh2 will be mate) 3. ... ♕xd1 will follow next move.

33 Endgame / Rook against pawn: A

- 1) 1. ♖f2 ♕d2 2. ♜d8+ ♖c1 3. ♕e2 c2 4. ♜c8 ♖b2 5. ♕d2
- 2) 1. ♕e6 e3 2. ♕d5 ♖f3 3. ♕d4 e2 4. ♕d3
- 3) 1. ♕d7 ♖c4 2. ♕e6 d3 3. ♕e5 ♖c3 4. ♕e4 d2 5. ♕e3
- 4) 1. ... ♕f1 2. ♜f8+ ♕e2 3. ♜e8+ ♖f1 4. ♖f3 d2
- 5) 1. ... ♕e3
- 6) 1. ... ♕d4! 2. ♜f8 ♕e3 3. ♖c4 f3 4. ♜e8+ ♕d2!
- 7) 1. ... e3 (1. ... ♕e5? 2. ♜e1; 1. ... ♕f4? 2. ♕e6 e3 3. ♕d5 e2 4. ♕d4 ♖f3 5. ♕d3 ♖f2 6. ♕d2) 2. ♕d6 ♕e4!
3. ♕c5 ♕d3 (3. ... e2? 4. ♖c4 ♕e3 5. ♖c3 ♖f2 6. ♕d2)
- 8) 1. ♕b7 ♖c4 2. ♕a6 b3 3. ♕a5 ♖c3 4. ♕a4 b2 5. ♕a3
- 9) 1. ... ♕f2 2. ♜f8+ ♕e1! (1. ... ♕f1? 2. ♕e3; 1. ... ♕f3? 2. ♜f8+)
- 10) 1. ♜e5 ♖f6 2. ♜b5 g3 3. ♜b3
- 11) 1. ... ♕f4 2. ♜d8 ♕e3 3. ♕g4 d3 4. ♜e8+ (4. ♕g3 d2) 4. ... ♕f2!
- 12) 1. ... ♕c5 (1. ... b4 2. ♜d5) 2. ♕g7 b4 3. ♖f6 b3 4. ♜b8 ♖c4 5. ♕e5 ♖c3 6. ♕e4 b2

34 Endgame / Rook against pawn: B

- 1) 1. ♜b7 (1. ♕b7 ♖b5 2. ♕a7+ ♕a5 3. ♜b7) 1. ... ♕c4 2. ♖b6
- 2) 1. ♜c1 ♕d4 2. ♖b6 c3 3. ♖b5 ♕d3 4. ♖b4 c2 5. ♖b3
- 3) 1. ♜e1+ ♖f3 2. ♜d1 ♕e4 3. ♖c7 d4 4. ♖c6 d3 5. ♖c5 ♕e3 6. ♖c4
- 4) 1. ♕b1! e3 2. ♜a2+ ♕d1 3. ♜a8 e2 4. ♜d8+ ♕e1 5. ♖c2 ♖f2 6. ♜f8+ ♕e1 7. ♜e8
- 5) 1. ... ♕e4 (1. ... ♕e3? 2. ♜h2 c4 3. ♕d5) 2. ♕d6 c4 3. ♖c5 c3 4. ♜d1 c2 5. ♜c1 ♕d3
- 6) 1. ... ♕g4 2. ♖c6 ♖f4 3. ♕d5 g4 4. ♜b4+ ♖f3 5. ♜b3+ ♖f4
- 7) 1. ♜d8+ ♖c2 2. ♜e8 ♕d3 3. ♖f5 e3 4. ♖f4
- 8) 1. ♕g4 ♕e3 2. ♕g3 d3 3. ♜e1+
- 9) 1. ♜b7 (1. ♜c7+ ♕d4 2. ♜b7 ♖c4 3. ♖c7 ♖c5 4. ♜b8 b4 5. ♜b7 ♖c4 6. ♖b6 1-0) 1. ... b4 2. ♖c7 ♖c4
3. ♖b6 b3 4. ♕a5
- 10) Drawing
- 11) 1. ♜b4+ ♕d5 2. ♖b5 e4 3. ♜b1! ♕d4 4. ♖b4 ♕d3 5. ♖b3 e3 6. ♜d1+
- 12) 1. ♜f2+ (1. ♖c7 g5 2. ♕d6 g4 3. ♕d5 g3 4. ♕d4 ♖f4 5. ♕d3 ♖f3 6. ♜a8 g2=) 1. ... ♕e5 2. ♜g2 ♖f6 3. ♖c7
g5 4. ♕d6 ♖f5 5. ♕d5 ♖f4 6. ♕d4 g4 7. ♜f2+

35 Endgame / Rook against pawn: C

- 1) 1. ♖c7 (1. ♕d7 ♕d5) 1. ... ♕d5 2. ♕d7 ♕e4 3. ♖c6 (Reti 1921)
- 2) 1. ♕d1 g3 2. ♜c2+ ♖f1 3. ♜c8 g2 (3. ... ♕f2 4. ♜f8+ ♕e3 5. ♕e1 g2 6. ♜g8 ♖f3 7. ♜g7) 4. ♜f8+ ♖g1
5. ♕e2 ♖h2 6. ♜h8+ ♖g1 7. ♜g8 ♖h2 8. ♖f2
- 3) 1. ♕d6! g4 2. ♕d5 ♖f4 3. ♕d4 ♖f3 4. ♕d3 g3 5. ♜f7+ ♖g2 6. ♕e2
- 4) 1. ♕e4 g2 2. ♖f3 g1 ♗+ 3. ♖f2 ♖h2 4. ♜h6+ ♗h3+ 5. ♖f3
- 5) 1. ♜b1! (1. ♕a7? ♖b5 2. ♜b1 ♕a5 3. ♜a1+ ♖b5 4. ♜b1 ♕a5 5. ♖b7 ♖b5 6. ♖c7 ♖c5 7. ♜c1+ ♕d4!)
1. ... ♖c5 2. ♕a7 ♖b5 3. ♖b7 ♕a5 (3. ... ♖c5 4. ♕a6) 4. ♖c6
- 6) 1. ♜c7 b3 2. ♕d5 ♖a2 3. ♖c4 b2 4. ♜a7+ ♖b1 5. ♖b3 ♖c1 6. ♜c7+ ♖b1 7. ♜c8 ♖a1 8. ♜a8+ ♖b1
9. ♜a2 ♖c1 10. ♜xb2
- 7) 1. ♜a8 (1. ♜a1 b4 2. ♜b1 ♖b5 3. ♖c7 ♖c5) 1. ... b4 2. ♜b8+ ♖c5 3. ♖c7
- 8) 1. ♕a6! (1. ♖c6 ♖c2 2. ♖b5 b3; 1. ♖b6 ♖c3 2. ♜c7+ ♕d2) 1. ... ♖c2 2. ♜c7+ ♕d2 3. ♜b7 ♖c3 4. ♕a5 b3
5. ♕a4 b2 6. ♕a3
- 9) 1. ♕h5 (1. ♜f6+ ♖g4 2. ♜e6 ♖f4 3. ♕h5 e4 4. ♕h4 ♖f3 5. ♕h3 e3 6. ♜f6+) 1. ... e4 2. ♕h4 ♖f3 3. ♕h3 e3
4. ♜f6+ ♖e2 5. ♖g2
- 10) 1. ♕h6 (1. ♖g6 ♖f2; 1. ♖f6 ♖f2) 1. ... ♖f2 2. ♜f8+ ♕e3 (2. ... ♖g2 3. ♖g5 g3 4. ♖g4 ♖h2 5. ♜h8+)
3. ♜g8 ♖f3 4. ♕h5 g3 5. ♖h4 g2 6. ♖h3
- 11) 1. ♜g3+ ♖a2 2. ♜g4! (2. ♕d6? b4 3. ♖c5 b3 4. ♖b4 b2 5. ♜a3+ ♖b1 6. ♖b3 ♖c1) 2. ... ♖a3 3. ♕d6 b4
4. ♖c5 b3 5. ♜b4 b2 6. ♖c4 ♖a2 7. ♜a4+ ♖b1 8. ♖b3 ♖c1 9. ♜c4+
- 12) 1. ♖b7 b4 2. ♕a6 ♖a2 3. ♖b5 b3 4. ♖b4 b2 5. ♜a7+ ♖b1 6. ♖b3 ♖c1 7. ♜c7+ ♖b1 8. ♜h7

36 Endgame / Rook against pawn: D

- 1) 1. g7 ♜f1+ 2. ♖g6 (2. ♖g8? ♖e7 3. ♖h7 ♜h1+ 4. ♖g6 ♜g1+ 5. ♖h7 ♖f7 6. ♖h8 ♜h1#)
- 2) 1. b7 ♜a2+ 2. ♖b1! ♜b2+ 3. ♖a1 ♜b4 (3. ... ♜h2 4. b8 ♜ ♜h1+ 5. ♜b1 ♜xb1+ 6. ♖xb1; 3. ... ♜xb7
stalemate) 4. b8 ♜ ♜xb8
- 3) 1. ♕e5 (1. f5? ♖f3 2. ♖e7 ♜e4+ 3. ♕d7 ♜f4 4. ♖e6 ♖g4) 1. ... ♕e3 2. f5 ♜e4+ 3. ♕d6 ♜f4 4. ♖e6
- 4) 1. ♖g5 ♖c3 2. ♖f6 ♖d4 3. ♖e6

- 5) 1. ♖d3 (1. ♖e3? ♗c2 2. ♖d4 ♖d2 3. ♖e4 ♖e2 4. f5 ♖f8 5. ♖f4 ♖f2) 1. ... ♖c1 (1. ... ♖b2 2. ♖d4 ♖b3 3. f5 ♖f8 4. ♖e5) 2. ♖e4 ♖d2 3. f5 (3. ♖e5? ♖e8+) 3. ... ♖e2 4. f6
- 6) 1. ♖e6 ♖d8 2. ♖f6 ♖f8 3. ♖e6 ♖h8 4. ♖f6
- 7) 1. ♖e5! (1. ♖g7? ♖g1+ 2. ♖h7 ♖f1 3. ♖g6 ♖e4 4. f6 ♖e5; 1. ♖e6? ♖f4+) 1. ... ♖d3+ (1. ... ♖f3+ 2. ♖d6) 2. ♖d6
- 8) 1. ♖b6 (1. ♖c5? ♖c1+) 1. ... ♖c2 2. b5 ♖b3 3. ♖c6 ♖c1+ 4. ♖d6
- 9) 1. ♖b4 ♖c2 2. ♖c4
- 10) 1. b5 ♖d5 2. b6 ♖c8+ (2. ... ♖c1 3. b7 ♖a1+ 4. ♖b8 ♖c6 5. ♖c8 ♖h1 6. b8♖+!) 3. ♖a7! ♖c6 4. b7 ♖c7 5. ♖a8 ♖xb7
- 11) 1. ♖b3! (1. ♖a4? ♖g2) 1. ... ♖h4 (1. ... ♖g2 2. ♖c4 ♖f3 3. b5 ♖e4 4. b6 ♖h1 5. ♖c5 ♖c1+ 6. ♖d6) 2. ♖a4! ♖g2 3. ♖b5! ♖f3 4. ♖c5 ♖e4 5. b5 ♖h5+ 6. ♖c6 ♖d4 (6. ... ♖h6+ 7. ♖c5!) 7. b6 ♖h6+ 8. ♖c7 ♖c5 9. b7 ♖h7+ 10. ♖c8 ♖c6 11. b8♖+!
- 12) 1. ♖g3! (1. ♖f3 ♖a4 2. ♖g3 ♖b2 3. ♖h4 ♖c3 4. ♖g5 ♖d4) 1. ... ♖a4! (1. ... ♖b2 2. ♖f4) 2. ♖h4 ♖b2 3. ♖g5 ♖c3 4. ♖f5 ♖a5+ 5. ♖f6 ♖a6+ 6. ♖f5 ♖d4 7. g5 ♖a5+ 8. ♖f6 ♖a6+ 9. ♖f5

37 Strategy / Strong square: A

- 1) 1. ... ♗xb3
- 2) 1. e6 fxe6 2. ♖e5
- 3) 1. a5
- 4) 1. ♗d5
- 5) Drawing
- 6) 1. ♗h3
- 7) 1. ... ♗f8 2. ♖c2 ♗h6
- 8) 1. ♗xf6 ♗xf6 2. ♗d5
- 9) 1. ... b4
- 10) 1. ... f3
- 11) 1. g3 ♖ 2. ♗xc6; 1. ♗xc6? ♖e4+
- 12) 1. ♖h1

38 Defending / Defending against mate: A

- 1) 1. ♖a8+ (1. ♖a7+ ♖c8) 1. ... ♖xa8 2. ♗xd5+ ♖b8 3. ♗xf3
- 2) 1. ... ♖f3 2. ♖xf3 (2. ♖xf3 ♗c6+) 2. ... ♖f7
- 3) 1. ... ♖xg5 2. fxg5 ♗xg5+ 3. ♖c2 ♖xe6
- 4) 1. ... ♖xg1+ 2. ♖xg1 ♗e3+ 3. ♖f1 h5
- 5) 1. ♖e1! (1. ♖f1 ♖xf1+ 2. ♖xf1 ♖h1#) 1. ... ♖xe1+ 2. ♖f1
- 6) 1. ... ♗xe4+ (1. ... ♖d3+? 2. ♖a1 ♗xe4 3. ♖xg7+ ♖xg7 4. ♖h7+ ♖g8 5. ♗xf7+) 2. ♖xe4 ♖d3+
- 7) 1. ... ♖e3+ (1. ... c4 2. ♖xg8+ ♖xg8 3. ♗xc4+) 2. ♖d3 c4+
- 8) 1. ♖b8+ (1. ♖b5? ♖h4+ and 2. ... ♖xb5) 1. ... ♖h7 2. ♖b5 ♖xb5? 3. ♖d3+
- 9) 1. ... ♖d1 2. ♖xd1 ♖xf6
- 10) 1. ... ♖f2+ 2. ♖h2 ♖g4+ 3. ♖h3 ♖f6
- 11) 1. ... ♖e3+ 2. ♖xe3 ♖f5+ 3. ♖f2 ♖g7
- 12) 1. ... ♖d4! (1. ... ♖c1 2. ♖d8+ ♖c8 3. ♖a5+; 1. ... ♖a1 2. ♖d8+ ♖c8 3. ♖xe8)

39 Defending / Defending against a passed pawn: A

- 1) 1. ♗b3 g5 (1. ... b1♖ 2. ♖f7#) 2. ♗xc2
- 2) 1. ♖d5 g2 2. ♖f4 g1♖ 3. ♖e2+
- 3) 1. ♖h8 c1♖ 2. ♖d8+ ♖c5 3. ♖c8+
- 4) 1. ... ♖b3+ 2. ♖g2 ♖b2+ 3. ♖f3 ♖d2
- 5) 1. ♖a5 ♖xa5 2. b4+ ♖xb4 3. ♖b2
- 6) 1. ♖d1+! ♖e7 (1. ... ♖c7 2. ♖e6+; 1. ... ♖c8 2. ♖e6) 2. ♖f3
- 7) 1. ♖b8+ ♖a7 2. ♖e5 e1♖ (2. ... ♖xb8 3. ♖d3) 3. ♖c6#
- 8) 1. ♗a1! ♖b1 2. ♗d4 ♖c2 3. ♖e5
- 9) 1. ♗e1 fxe1♖ 2. ♖g2+
- 10) Drawing
- 11) Drawing
- 12) 1. ♖fe1 a1♖ 2. ♖1e7#

40 Defending / Overcoming a passed pawn: A

- 1) 1. ♖e5 b2 2. ♗c4 b1♙ 3. ♜a3#
- 2) 1. ♜a3+ ♗b1 2. ♗b6 ♗c2 3. ♗a4! b1♙ 4. ♜c3#
- 3) 1. ♜h4+ ♗g2 (1. ... ♗g1 2. ♗g3) 2. ♜h1 ♗xh1 3. ♗g3+
- 4) 1. ♗a5 a1♙ 2. ♜a6+ ♗b8 3. ♗c6+
- 5) 1. ♗g5! f1♙+ (1. ... ♗h5 2. ♗e4+ ♗h4 3. ♗d2!) 2. ♗f3+ ♗h3 3. ♜h5+ ♗g2 4. ♜h2#
- 6) 1. ♜d2 ♗b1 2. ♗e4 c1♙+ 3. ♗c3+ ♗a1 4. ♜a2#
- 7) 1. ♗d6 h2 2. ♗b5+ ♗b8 3. ♜f8#
- 8) 1. ♗d4 exd4 (1. ... a1♙ 2. ♜d8#; 1. ... ♗xd4 2. ♜d8#) 2. ♜g5+ ♗d6 3. ♜a5
- 9) 1. ♗e1 (1. ♗xf2 stalemate) 1. ... f1♙+ 2. ♗f3+ ♗h3 3. ♜h5+ ♗g2 4. ♜h2#
- 10) 1. ♗d7 a6 (1. ... a5+ 2. ♜xa5+) 2. ♜b8+ ♗a7 3. ♗e5 g1♙ (3. ... ♗xb8 4. ♗f3) 4. ♗c6#
- 11) 1. ♗f8+ ♗f6 2. ♗d7+ ♗g6 3. ♜e6+ ♗g5 4. ♜f6
- 12) 1. ♗xe4 f1♙ 2. ♜b3 ♗xb3 (2. ... ♙g1+ 3. ♗c5+) 3. ♗d2+

41 Defending / Defending against threats: A

- 1) 1. ... ♜e8 (1. ... ♙xd7 2. ♜xd7 ♜xf7 3. ♜d5)
- 2) 1. ♗b5 (1. ♗d2 ♗b4+ 2. ♗c1 exf4 3. ♗b5 ♗f6 4. ♗xd4 ♗g6; 1. ♗xe5 ♗b4#)
- 3) 1. ♙xh7+ (1. ♜xd4? ♜f1#; 1. ♜e1? ♗f5+) 1. ... ♗xh7 2. ♗xf8+ ♗g8 3. ♜xd4
- 4) 1. ♗d6 ♜xe5 (1. ... ♜f8 2. ♙e7) 2. ♜xe5 (2. ... ♗g8 3. ♜e8+ ♙xe8 4. ♗xe8)
- 5) 1. ♗c2 (1. bxc4? ♜a1+ 2. ♗c2 ♗a4+; 1. ♗c3 ♗xc3; 1. ♗f3 ♗xd2 2. ♜xd2 ♜a1+)
- 6) 1. ... ♗d3 (1. ... ♗xg2 2. bxc5) 2. ♗a2 (2. ♗xd3 ♗xd3 3. ♗xh6 (3. ♗xd3 ♗xf7) 3. ... ♗xb4) 2. ... ♗a6 3. b5 ♗b4 4. ♗b3
- 7) 1. ... ♙e6+ (1. ... ♜xf1? 2. ♗b5+ ♗d7 3. ♜xc6; 1. ... ♗f7+? 2. ♜xf7+ ♜xf7 3. ♗b5+) 2. ♗d5+ ♗d7 3. ♜xf8 ♙xd5+ 4. ♗a1 ♜xf8 5. ♙xf8 ♗f7 =
- 8) 1. ♙xd2 (1. ♙f8+ ♗h7 2. ♜xc1 dxc1♙+ 3. ♗h2 fxe6) 1. ... ♙xd2 (1. ... ♙xe1+ 2. ♗xe1) 2. ♜xa1 ♙d5
- 9) 1. ... ♜e1+ (1. ... cxd6 2. ♙a4; 1. ... ♙xf4 2. d7+) 2. ♜xe1 (2. ♗xe1 ♙xf4 3. d7+ ♗d8) 2. ... ♙xf4 3. ♜bd1 (3. ♗g3 ♙a4) 3. ... cxd6
- 10) 1. ♙e7 (1. ♙e6? ♙c4 2. ♜ae2 ♜xe1+ 3. ♜xe1 ♙xe6) 1. ... ♙c5 (1. ... ♙d1 2. ♜ae2) 2. ♙e2 (2. ♙e6? ♙c4)
- 11) 1. ... ♜xf4 (1. ... ♜f6 2. ♗f7+ ♗g8 (2. ... ♜xf7 3. ♙xf7) 3. ♗d8+ ♗e6 4. ♗xe6) 2. ♗f7+ (2. gxf4 ♗xf4+ 3. g3 ♗xg5; 2. ♙f7 ♜h4+) 2. ... ♜xf7 3. ♙xf7 ♗xg3+
- 12) 1. ... ♜fe8 (1. ... ♙xc4 2. ♗e7+ ♗h7 3. ♙xh5+; 1. ... ♗xc4 2. ♗e7+; 1. ... ♜d7 2. ♙xh5; 1. ... ♜de8 2. ♙xh5 gxf5 3. ♗f6+) 2. ♗f6+ ♗f8

42 Rook endings / Mate: A

- 1) 1. ♜a8! ♗xa4 2. ♗b6#
- 2) 1. ♜e6 Δ 2. ♜h6+ 3. g6+
- 3) 1. ♗g8
- 4) 1. ♗d3 ♜d7+ 2. ♗c3 Δ 3. b4#
- 5) 1. f5+ ♗h6 2. ♜g8!
- 6) 1. a3+ ♗xa3 2. ♜g4 Δ mat.
- 7) 1. ... ♜d6 2. ♜xa7+ ♗e6
- 8) 1. ♗f6 ♜f2+ 2. ♗g7 g4 3. ♜a5+
- 9) 1. g4! ♜xg4 2. ♜c7 Δ mate
- 10) 1. ♜e1+ ♜b1 2. ♜c1 ♜xc1 3. ♗xc1 h5 4. gxf6
- 11) 1. ... ♜e5 2. ♜g4+ ♗c3 Δ 3. ... ♜a5+
- 12) 1. f5 ♜xg3 2. f6

43 Rook endings / X-ray check: A

- 1) 1. ... ♜h7+ 2. ♗g4 ♜g7+
- 2) 1. ♜h6+ ♗d7 2. ♜h8 ♜xa7 3. ♜h7+
- 3) 1. ♜a4 ♜xa4 2. ♜h3+ ♗d4 3. ♜h4+
- 4) 1. a3+ ♗xa3 2. ♜a5+ ♗b4 3. ♜a4+
- 5) 1. ... ♜a3+ 2. ♗e4 ♜a4+ Δ 3. ... ♜h4; 2. ♗e2 ♜a1
- 6) 1. ♗g3 ♗f7 2. ♜h8 (1. ♜h8? ♜h1+; 1. ♜g8? ♜h1+ Δ 2. ... ♜g1+)
- 7) 1. b6 axb6 2. a7
- 8) Drawing
- 9) 1. e7 ♗xe7 2. ♜c8
- 10) 1. ♗e4 h3 2. ♜h8 ♜xa7 3. ♜h6+ ♗e7 4. ♜h7+

- 11) 1. a6! bxa6 2. ♖a8; 1. ... ♗h6 2. axb7 ♕xb7 3. c6+ (1. c6? a6!)
 12) 1. ♗g1! ♗a2 2. ♗g8 (1. ♗g8? ♗h1+)

44 Rook endings / Passed pawn: A

- 1) 1. ♗b7 ♕c8 2. ♗e7 ♕d8 3. ♗a7
 2) 1. ♗f7 ♕c6 (1. ... ♕c8 2. e7 ♕d7 3. e8♖+; 1. ... ♕b8 2. e7 ♗c8 3. ♗f8) 2. e7 ♗c8 3. ♗f8 ♕d7 4. ♗xc8
 3) 1. ♗d2+ ♕e7 2. f6+ ♕e8 3. f7+ ♕e7 4. ♗xd8 ♕xd8 5. f8♖+
 4) 1. h7 ♗f8 2. ♗g4+ ♕h6 3. ♗g8
 5) 1. ♗e7 ♗xe7 2. f6+ ♕xf6 3. h8♖+
 6) 1. ♕a1 ♕a4 2. ♕b2 ♗h5 3. a7 ♗a5 4. ♗b3 (4. ♗b7)
 7) 1. a7 ♗xh6+ (1. ... ♗d8 2. h7 ♕f7 3. ♗g8) 2. ♗h4 ♗xh4+ (2. ... ♗a6 3. ♗h8+ ♕e7 4. a8♖+-) 3. ♕g3
 8) 1. ♗c3+ ♕a4 2. ♗c1 ♗xb7 3. ♗a1+ ♕b5 4. ♗b1+
 9) 1. ♗e8 (1. ... ♕g6 2. ♗xe6+ ♕h7 3. ♗c6 ♗a3 4. ♕e2)
 10) 1. ♗f6 (1. ♗g7+ ♕h8 2. ♕f7 h2) 1. ... ♗e8 (1. ... h2 2. ♗d6 ♗e8 3. ♗d8) 2. ♗d6
 11) 1. ♗a4 ♗xa4+ 2. ♕b5 ♗a7 3. c6
 12) 1. ♗b2! ♗xc7 2. ♗b8+ ♕f7 3. ♗b7 ♗e7+ 4. ♕d6 ♗xb7 5. axb7

45 Rook endings / Mix: A

- 1) 1. ... ♗g8 2. ♗a4 ♗g3
 2) 1. ♗c8+ (1. b6 ♕b5 (1. ... ♗e1+ 2. ♕d6 ♕b5 3. b7 ♕b6=) 2. ♕d6 ♕a6=) 1. ... ♕b4 2. b6
 3) 1. h5 ♗xh5 2. ♗e5
 4) 1. ♗h1+ ♕g2 2. ♗c1 ♗a8 3. ♗xc2+
 5) 1. ... ♕e7 (1. ... ♕d8 2. b7) 2. ♗b4 (2. ♗h4 ♕d6) 2. ... ♗d8 3. ♕c4 ♕d7
 6) 1. ♗f3 (1. ♗e2 ♕g7) 1. ... ♗e1+ 2. ♕f7 ♗h1 3. ♕e7
 7) 1. ♕f3+ (1. ♗d5 ♕g3) 1. ... ♕h3 (1. ... ♕g1 2. ♕g3 ♕f1 3. ♗h2 c4 4. g5) 2. ♗d5 ♗xh7 3. ♗h5+ ♗xh5
 4. g5
 8) 1. ♗g7+ ♕c8 2. ♕b5 (2. ♕b6? ♗a4!) 2. ... a2 3. ♗g8+ ♕b7 4. ♗g7+ ♕b8 5. ♗g8+
 9) 1. ... ♗c8 2. g3 c5+ 3. bxc5+ bxc5+ 4. ♗xc5 ♗xc5
 10) 1. ♗c5! ♗h6 2. ♗c6+! (2. b5+? ♕b7) 2. ... ♗xc6 3. b5+ ♕b6 4. bxc6 ♕xc6 5. ♕a5 (5. ♕b4? ♕b6) 5. ... ♕b7
 6. ♕b5
 11) 1. ... f6 2. f4 (2. f3 ♗f1) 2. ... ♗f1 3. fxg5 (3. f5+ ♕h6) 3. ... fxg5
 12) 1. ♕e4! (1. ♕e5? ♗d3!; 1. ♕c5? ♗d3) 1. ... ♗e1+ 2. ♕f3 (2. ♕f4? ♗d1) 2. ... ♗d1 3. ♗xa3 ♗xd5 4. ♗a1+

46 Attack on a castled king: A

- 1) 1. ... ♗xf3 2. gxf3 ♖g5+ 3. ♕h1 ♖h5
 2) 1. ♕f6 ♗g8 2. ♕h5 g5 3. ♖f6#
 3) 1. ♕f6 gxf6 2. ♖xf6 ♗h7 3. ♖h8+ ♗g8 4. ♖xh6#
 4) 1. ♕h6+ ♕f8 2. ♕f5
 5) 1. ♖xh7+ ♕xh7 2. ♗h3+ ♕g7 3. ♗h6+ ♕h7 4. ♗f8+
 6) 1. ♖xg4 fxg4 2. ♕g6+ hxg6 3. hxg6+
 7) 1. ♖xg6 hxg6 2. ♕f4
 8) 1. ♖xh7+ ♕xh7 2. ♗xh7+ ♗xh7 (2. ... ♕xh7 3. ♗h3+) 3. ♗g8#
 9) 1. ♕f6+ gxf6 (1. ... ♕h8 2. ♖c2) 2. ♖g4+ ♖g5 3. ♗xf6
 10) 1. ♗xg7+ ♕xg7 2. ♗h6+ ♕xh6 3. ♖f6+ ♕h5 4. ♗d1#
 11) 1. ♗xh6 ♗xh6 (1. ... ♗g7 2. ♗g5+ ♕g8 3. ♗f6) 2. ♖xh6+ ♕xh6 3. ♗g5
 12) 1. ♕h5 g5 2. ♗g1

47 Attack on a castled king: B

- 1) 1. ♕f5 exf5 2. ♕d5
 2) 1. ♗xc6 ♗xc6 2. ♖h6
 3) 1. ♖g5+ ♕h8 2. ♗g3
 4) 1. ♗a7 ♖xa7 2. d7
 5) 1. b4 (1. ♗xf6 hxg5) 1. ... ♖b5 2. ♗xf6
 6) 1. ... ♗b4 (1. ... ♕f3+? 2. ♗xf3 ♖xf3 3. ♖e4) 2. axb4 (2. f3 ♗c5+; 2. ♖xc6 ♕f3+) 2. ... ♕f3+ 3. ♗xf3 ♖xf3
 7) 1. ... ♗xe5 2. fxe5 ♕g4 3. h3 ♖g3
 8) 1. ... ♕b3 2. ♗xb3 ♗xe3+ 3. ♖xe3 ♖g2#
 9) 1. ♖g5 ♗b8 (1. ... ♗xg5 2. ♗h8+ ♕g7 3. ♗1h7#) 2. ♕xf6+
 10) 1. ♗e4 (1. ♖xh5? ♖xg2#) 1. ... ♖c8 2. ♖xh5 (2. ♕xh7 ♗xe4 3. ♕xf8 d5)

- 11) 1. ... ♖d2 2. ♗xd2 (2. ♗xf3 ♖xf2 3. ♖xf2 ♗h2+ 4. ♗g2 ♗h4) 2. ... ♗d4
 12) 1. ♗xe4 (1. ♖xg7 ♖xg7 2. ♗xe4 c5) 1. ... ♖xe4 2. ♗h6 ♗f6 3. ♗xf6

48 Attack on a castled king: C

- 1) 1. ♗xf7 ♖xf7 2. ♖g8+ ♖xg8 3. ♖xf7#
 2) 1. ♖f6 ♗xe5 2. ♗xh6+ ♗xh6 3. ♖xh6#
 3) 1. ♗h6 ♖h8 2. ♖g3 ♖g8 3. ♗f6+
 4) 1. ♗g5 d5 2. ♗g7+ ♗xg7 3. ♗xg7+ ♖g8 4. ♗f6#
 5) 1. ♗g5+ ♖f8 2. ♗f6 (2. ♖h4 ♗e5) 2. ... ♗e5 3. ♗xe5 f6 4. ♗xf6+ ♖f7 5. ♗h8+ ♖e7 6. ♖d7+ ♗xd7
 7. ♖xd7
 6) 1. ♖c7 ♖b8 2. ♖e8
 7) 1. ♗g6+ ♖g7 (1. ... fxc6 2. ♖xg6 exf5 3. ♗xh6#) 2. ♗h7+ ♖xh7 3. ♖h3 ♖h8 4. ♗xh6+ ♖g8 5. ♖g3#
 8) 1. ... ♖e1 2. ♖xe1 ♗f3+ 3. ♖g1 ♗h3
 9) 1. ♖g5 ♗xf5 2. ♖xh7 ♗e6 3. ♖xf6+
 10) 1. ... ♗h3 2. ♖g1 ♖h5 3. ♖xh5 ♗xf3+
 11) 1. ♖g3+ ♖h7 2. ♖f5 ♗h6 3. ♖h5
 12) 1. ... ♗f8 2. ♗e6 ♗g7 3. ♖d3 ♗a3

49 Attack on a castled king: D

- 1) 1. ♖g6 fxc6 2. ♗xg6+ ♖h8 3. ♗xh6+ ♗h7 4. ♗xf8+
 2) 1. ♗e3 (1. ♗g5? ♗f8) 1. ... ♗f8 2. ♗xd4
 3) 1. ♗c4+ ♖h8 2. ♗xh6+ gxc6 3. g7+ ♖h7 4. gxf8 ♖+ ♖h8 5. ♖g8#
 4) 1. ♖g7 ♖xg7 2. fxc6+ ♗xg7 3. ♖f8+ ♗xf8 4. ♗xf8# (4. ♗xh7#)
 5) 1. ♖xc6+ dxc6 2. ♖a7 ♗e1 3. ♖xc6#
 6) 1. ... ♖xa3 2. bxa3 ♗h4
 7) 1. ♗a1+ ♖g7 2. ♖xh7+ ♖xh7 3. ♗h1+ ♖g6 4. ♗h5+ ♖f6 5. e5#
 8) 1. ♗c4 (1. ♗b5 ♗d6 2. ♗xe8 ♖xe8) 1. ... ♗xc4 (1. ... ♗f6 2. fxc6; 1. ... ♖a6 2. ♗xf7+) 2. f6
 9) 1. ♗xg6 hxc6 2. ♗xg6 ♖xd6 3. ♖xf7
 10) 1. ♗e2 ♗e6 (1. ... ♗xe2 2. ♖xf7#; 1. ... ♗f6 2. ♗e5 (2. ♖xf7+)) 2. ♖xf7+ ♗xf7 3. ♗e5+ ♗f6 4. ♗xf6#
 11) 1. ♗f5 (1. ♗g4+? ♖h8 2. ♗f5 e4) 1. ... ♖e6 (1. ... h6 2. ♗g4+ ♖h8 3. ♗h4 ♖g7 4. ♗g3+ (4. ♖f1) 4. ... ♖h8
 5. ♗e3) 2. ♗h5 ♖e8 3. ♗xh7+ ♖f8 4. ♗h8#
 12) 1. ♗xg7 ♖xg7 2. ♖d8 ♖ce6 3. ♗xg7+ ♖xg7 4. ♖h6+ ♖h8 5. ♖xf8#

50 Strategy / Open file: A

- 1) 1. f4
 2) 1. cxd5 exd5 2. ♖ac1 ♖ac8 3. ♗a6
 3) 1. ♖g6
 4) 1. ♖c6
 5) 1. ... ♖b4
 6) 1. ♗a6!; 1. ♖ac1 ♖ac8 2. ♗a6 ♖c5
 7) 1. ... ♖g3 2. ♖c1 ♖e4
 8) 1. ♖c8 ♖f8 2. ♖xd8+ ♖xd8 3. ♖c7
 9) 1. ♖d3
 10) 1. ... ♖c6 2. ♖xc6 ♗xc6+
 11) 1. g4 (1. ♗g5 ♖g7 2. ♗xf6+ ♖xf6 3. ♖d7 ♖b8 4. c5 ♖e6 5. ♖c7 f6)
 12) 1. ♗e5

51 Strategy / Open file: B

- 1) 1. f4 (1. f3 f6 2. exf6 gxf6 3. ♖f2 ♖f7 4. ♖b1 ♖e8) 1. ... g5 (1. ... f6 2. ♖f2 ♖f7 3. ♖b1 ♖e8) 2. ♖f2 (2. fxc5
 ♖g7 3. ♖f2 ♖b8) 2. ... gxf4 (2. ... ♖g7 3. ♖b1 f6 4. ♖b7+ ♖g6) 3. ♖b1 ♖g7 4. ♖f3
 2) 1. ♖c6 ♗d8 (1. ... ♗e8 2. ♗xf6 gxf6 3. ♗xd5 ♖c8 4. ♗g6+) 2. a4
 3) 1. ♖xd8 ♖xd8 2. ♗a3 ♖c8 3. ♖d1
 4) 1. ♗f3 (1. ♗xe4 dxe4 2. ♖ed1 (2. ♖xc8 ♖xc8 3. ♖d1) 2. ... h5 (2. ... ♖f8 3. ♖xc8 ♖xc8 4. ♖d7 ♖b8 5. g4)
 3. ♖xd8+ ♖xd8 4. ♖c7 ♖b8 5. ♖e7 f5 6. h3 ♖f8 7. ♖e5) 1. ... ♗xf3+ 2. ♖xf3 f6 3. ♖ed1 ♖xc1 4. ♖xc1
 ♖d7 5. b4 ♖f7 6. g4 g5 (Waardenburg, F-Koning NJK Rotterdam 2016)
 5) 1. ♖c6 ♖h8 2. ♖fc1 g6 3. ♗c3
 6) 1. ♖a4! ♖e7 (1. ... ♖c7 2. ♖c3 ♖xc3 3. ♖xc3 ♖e7 (3. ... ♖e8 4. ♖d4 ♖c7 5. ♖c3) 4. ♖c5) 2. ♖b6 ♖d8
 3. ♖c3 ♖d6 4. ♖c5

- 7) 1. ♖b5 ♙b5 2. ♕h3 ♚xc1 3. ♚xc1
- 8) 1. ♙d1 ♙c6 2. ♚d7 ♚c7 3. ♚d6 ♙e4 4. ♚d8+ ♖g7 5. h4 (5. ♚b8 g5 6. h3 g5 ♚b8!)
- 9) 1. ... b5! (1. ... ♖e6 2. ♖f2 b5 3. ♖d2) 2. cxb5 axb5 3. ♖f2 (3. a4 ♚c3) 3. ... ♖e6 (3. ... ♚a8 4. ♚d2 ♖c6) 4. e4 ♚a8
- 10) 1. ♙a1! ♖f5 (1. ... ♖c6 2. ♚c1) 2. ♚c1 ♙d7 3. ♙c3
- 11) 1. ... ♖e4 2. ♙e3 (2. ♚xe4 ♚xd1+ 3. ♕xd1 ♚xd1+ 4. ♚e1 ♙d7 5. h3 ♚d3 6. ♙c2 g6 7. ♚e2 ♙d4) 2. ... ♚xc2 3. ♙xe4 ♚xb2
- 12) 1. ♕a6 ♙b8 2. ♕xb7 ♙xb7 3. ♙c2 ♚e8 4. ♙c7 ♚e7 5. ♙d6

52 Draws / Stalemate: A

- 1) 1. ♚g7+ ♖xg7 (otherwise perpetual check) 2. ♕d4+ ♙xd4 stalemate
- 2) 1. ♖e8 ♖e6 (1. ... ♕xf6 stalemate) 2. f7+ ♖g7 3. f8♙+ ♖xf8 stalemate
- 3) 1. ♙d1+ ♙xd1 stalemate
- 4) 1. ♖h4 a3 2. ♖h5 a2 3. h4 a1♙ stalemate
- 5) 1. a8♙ (1. g5+? ♖f7 2. g6+ ♖g8 3. a8♙+ ♕f8+) 1. ... ♕c1+ 2. g5+ ♕xg5+ 3. ♖h7 ♚xa8 stalemate
- 6) 1. ♙h5+ (1. ♚f3? ♙xf3 2. ♙c2+ ♖g8) 1. ... ♖g8 2. ♚f8+! ♖xf8 3. ♙f3+! ♙xf3 stalemate
- 7) 1. ♚a6+ ♕xa6 2. a8♙+ ♖b6 3. ♙a7+ ♚xa7 stalemate
- 8) 1. ♚a5 ♙xa5 (1. ... ♙b3+ 2. ♖f8 ♙xa5 3. ♙e5+ ♙xe5 stalemate (3. ... ♖g6 4. ♙e6+ ♙xe6 stalemate) 2. ♙f5+ ♙xf5 stalemate (2. ... ♖h6 3. ♙f6+ ♙xf6 stalemate
- 9) 1. ... ♚g1+ 2. ♚xg1 ♖g3+ 3. ♙xg3 (3. ♚xg3 ♙g2+) 3. ... ♙xg1+ and stalemate
- 10) 1. ♙h1! (1. ♕g2? f1♙+; 1. ♙a2? ♙f3+ 2. ♖g6 ♕e5 3. ♖h7 ♖b7; 1. ♙a5? ♙b1+! 2. ♖g5 ♙e4 3. ♙xa3 ♕f4+) 1. ... ♙xh1 2. ♕g2+ ♙xg2 stalemate
- 11) 1. ♚h4+ ♖xh4 2. ♚f4+ ♙xf4 (2. ... ♕xf4 stalemate) 3. g3+ ♖g4 (3. ... ♙xg3 stalemate) 4. gxf4 ♕xf4 5. ♖g2 ½-½
- 12) 1. ... f6+ 2. ♙xf6 ♙h4+ 3. ♖xh4 g5+ and stalemate

53 Draws / Insufficient material: A

- 1) Drawing
- 2) 1. ♖c7+ ♖a7 2. ♕d4+ ♙xd4 3. ♖b5+
- 3) 1. ♚f7+ ♖xf7 (1. ... ♖g5 2. ♚g7+; 1. ... ♖e6 2. ♖d8#) 2. ♖xe5+
- 4) 1. ♖c1 ♕f4+ 2. ♖d1 ♖b2 3. ♖e2 ♖xa1 4. ♖f3
- 5) 1. ♖e5 (1. ♖h6 ♕f3 2. ♖c5 ♖g3 3. ♖f5+ ♖f4) 1. ... ♖g3 2. ♖g4
- 6) 1. ♚d4+ ♖c6 (1. ... ♖e5 2. ♚e4+ ♖xe4 3. ♖c5+) 2. ♚c4+ ♙xc4 (2. ... ♖bxc4 3. ♖d4+; 2. ... ♖d7 3. ♖c5+; 2. ... ♖b7 3. ♖c5+; 2. ... ♖b5 3. ♖d4+) 3. ♖a5+
- 7) 1. ♖d1 ♖b3 (1. ... ♖b4 2. ♖d7) 2. ♖e4 f5 3. ♖c3
- 8) 1. ♖c8 (1. ♖d6 ♖e3) 1. ... ♕g7 2. ♖c7
- 9) 1. ♚e4 ♙g5 (1. ... ♙d8 2. ♚e8+ ♙xe8 3. ♖f6+) 2. ♚g4 ♙xg4 3. ♖f6+
- 10) 1. d7 ♙xd7 2. ♕c6+ ♙xc6 (2. ... ♖xc6 3. ♖e5+) 3. ♖d4+
- 11) 1. b8♖+! ♖b6 2. ♖d7+ ♖xc6 (2. ... ♖xd7 stalemate) 3. ♖xc5
- 12) 1. ♖f5+ ♖f2 2. ♚f1+ ♖g2 3. ♖e3+ ♕xe3 4. ♚xh1

54 Draws / Insufficient material: B

- 1) 1. ♖d5 ♚a3 (1. ... ♚a1 2. ♖xe3) 2. ♖c7+ ♖a7 3. ♖b5+
- 2) 1. ♕e8 ♚e6 (1. ... ♚a8 2. ♕c6) 2. ♕d7
- 3) 1. ♚a8 ♚a2 2. ♚d8 ♚d2
- 4) 1. ♕f3+ ♖b8 2. ♕g2 ♕e2 3. ♕f3 ♕f1 4. ♕g2
- 5) 1. ♖d5 ♚e5 2. ♖f4+ ♖g4 3. ♖d3 ♚d5 4. ♖xe1 ♚d2 5. ♖g1
- 6) 1. ♖g2! ♙g7+ 2. ♚g3 ♙xf7 3. ♚h3+
- 7) 1. e8♙ ♚xe8+ 2. ♖xd7 and the bishop is lost, after 2. ... ♚g8 follows 3. ♕d5+
- 8) 1. ♖d3 ♚d1 2. ♖c2 ♚f1 3. ♖b2
- 9) 1. ♖b6 (1. b8♙? ♚a4+ 2. ♖b7 ♚b4+ 3. ♖c7 ♚xb8; 1. h6? c5 2. ♖b6 ♚b4+ 3. ♖c6 ♚xb7) 1. ... ♖d7 (1. ... ♖d5 2. h6; 1. ... ♚b4+ 2. ♖xc6) 2. b8♖+ (2. b8♙ ♚b4+ 3. ♖a7 ♚xb8 4. ♖xb8 ♖e7) 2. ... ♖d6 3. ♖xc6
- 10) 1. ♖c6! ♚xd5 2. ♖c3+ ♖d4 3. ♖xb5+ (3. ♖xd5 b4) 3. ... ♖e5 (3. ... ♖c4 4. ♖a3+ ♖d4 5. ♖b5+) 4. ♖c7
- 11) 1. ♖g3+ ♖xg3 2. ♚h2+ ♙xh2 3. g7
- 12) 1. ♖e6! ♚xh3 (1. ... fxe6+ 2. ♕xe6 ♚xg5+) 2. g6+ ♖xg6 (2. ... fxe6 3. ♖g5+) 3. ♖f4+

55 Endgame / Wrong bishop: A

- 1) 1. ♖f3; 1. ♖xd4? ♖g4 2. ♖e3 ♖g3; 1. ♖f4 ♖h4 2. ♖f3 ♖h3 and and the king will not reach the corner.

- 2) 1. ♖f2! and the king will reach h1 (1. ♖f3? ♙e5 2. ♖f2 ♙h2 3. ♖f3 ♖f5; 1. ♖f1? ♙d4)
- 3) 1. ♖c2 and Black must give up the control over b2 or b1; 1. ♖c3? ♙b1 2. ♖c4 ♖b2 (*De Feijter 1940*)
- 4) 1. ♖e2! h3 2. ♖f3; 1. a5? h3 2. ♖f1 ♙c5 and the black king stops the white pawns.
- 5) 1. ♖d6! ♖xb7 2. ♖c5 a4 (2. ... ♖a6 3. ♖c4 a4 4. ♖b4!; 2. ... ♙e2 3. ♖d4) 3. ♖b4; 1. ♖d4? a4 2. ♖c3 a3 (*Mockel 1962*)
- 6) 1. ♖e1 ♖c5 2. ♜xd5+ ♖xd5 3. ♖d2; 1. ... ♜xg2 is stalemate.
- 7) 1. ♖f7 ♖h6 2. ♖g8 keeps the black king out of the corner.
- 8) 1. ass5 ♖d5 2. a6 ♖c6 3. ♙d8
- 9) 1. ♙b6 ♖c6 2. ♙a5
- 10) 1. ♙e8 ♖f6 2. h6; 1. h6? ♖f7 2. ♙e4 ♖g8
- 11) 1. ... h3 2. ♖f3 ♙f4 3. ♖f2 ♙h2 4. ♖f3 ♖f5
- 12) 1. ♖c5 ♖e7 2. ♖c6 ♖d8 3. ♖b7 ♖d7 4. ♙c1 and now because the black king cannot reach the corner any longer, it is time to collect the a-pawn.

56 Endgame / Wrong bishop: B

- 1) 1. ♙b6 ♖c6 2. ♙a5
- 2) 1. ♙e4 ♖xe4 2. ♖g4 ♖e5 3. ♖g5 (*Vancura 1922*)
- 3) 1. ♙f1 (1. ♙g4? ♖f2 2. ♖f4 ♖g2) 1. ... ♖f2 2. ♖g4 ♖xf1 3. ♖xh3 ♖f2 4. ♖g4 (*De Feijter 2005*)
- 4) 1. ♖e4 ♙c7 2. ♖f5 ♙d8 (2. ... h4 3. ♖g4 ♙d8 4. c7 ♙xc7 5. ♖xh4) 3. c7 ♙xc7 4. ♖g5
- 5) 1. ♙e1 g3 2. ♙xg3 hxg3 3. hxg3
- 6) 1. ... ♖c7
- 7) 1. ♙e6 ♖e7 2. h6 ♖f6 3. ♙f5 ♖f7 4. ♙h7 ♖f6 5. ♖f4
- 8) 1. ♙g4 h5 (1. ... ♖g3 2. ♖f6 ♖h4 3. ♖g6 h5 4. ♖f5) 2. ♖f5 hxg4 3. hxg4 ♖g3 4. ♖xg5
- 9) 1. ♙h6 ♖g8 2. ♙xg7
- 10) 1. ♖a4 ♖d4 2. ♖a3 ♖c3 3. b5! (3. ♖a4 ♖b2 4. ♖a5 ♖b3) 3. ... axb5
- 11) 1. ♖a7 (1. ♙e5 f3 2. ♙g3 f2 3. ♙xf2 ♖b8) 1. ... f3 2. ♙d4 ♖c7 3. a4 ♖c6 4. a5 (4. ♖b8? ♖d5 5. ♙f2 ♖c4 6. a5 (6. ♙e1 f2 7. ♙xf2 ♖b4) 6. ... ♖b5 7. ♙b6 f2) 4. ... ♖b5 5. a6 ♖c6 6. ♖b8
- 12) 1. ♙g8 ♖f6 2. ♖f3 g5 3. ♙h7