

# Step 1 mix

4

- 1) 1. ♟xd6 (capture an unprotected piece)
- 2) 1. ♖f8# (mate in one)
- 3) 1. dxe6+ (twofold attack)
- 4) 1. ... ♗xd2! (1. ... ♗f6?) (defending: moving away)
- 5) 1. ♗xc6 (defending: capturing)
- 6) 1. ... ♞xe7 (getting out of check: moving away with a capture)
- 7) 1. exf6 (profitable exchange)
- 8) ♟g6-b1-a2+
- 9) 1. ♖g5# (mate in one)
- 10) 1. ♜a7 (defending: protecting)
- 11) 1. ♞a4 ♖a6# (mate in one)
- 12) 1. ... ♖h5# (mate in one)

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- 1) 1. ... ♟xf1
- 2) 1. ... ♖g7 (getting out of check: interposing)
- 3) ♖c8 / ♖g8  
♗d1 / ♗h3
- 4) 1. ♜g6 (defending: moving away)
- 5) 1. ♟xd5 of 1. ♜xd5 (twofold attack)
- 6) 1. ... ♖b1# (mate in one)
- 7) 1. ... ♟c3 (defending: interposing)
- 8) 1. ♟xg7 (capture an unprotected piece)
- 9) 1. ♖a8# (mate in one)
- 10) ♜e8-h8-h3-c3+
- 11) 1. ... ♗f6 (defending: interposing)
- 12) 1. ... hxg1 ♖# (mate in one)

6

- 1) 1. ... ♖f1#! (1. ... ♖xg2+? 2. ♖xg2) (mate in one)
- 2) 1. f5 (cashing in a passed pawn)
- 3) 1. ♖xc2 (capture an unprotected piece)
- 4) 1. ♟xd6 (defending: capturing)
- 5) Drawing
- 6) ♗b4xd3xf4xe6xd8xc6 (route via c6-d8 is wrong: ♜d3 protects ♟d8)
- 7) 1. ♞c2 (getting out of check: moving away)
- 8) 1. ... ♜d2# (mate in one)
- 9) 1. ♗xe7+ (profitable exchange)
- 10) ♗f2-h1-g3-h5+
- 11) 1. ♜a4 (defending: moving away)
- 12) 1. g3! (1. ♞g3? ♟xe3) (defending: protecting)

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- 1) 1. exf6 (profitable exchange)
- 2) 1. ... ♖xf4 (capture an unprotected piece)
- 3) 1. ... ♞d7! (1. ... ♞c6? 2. c8♖+) (getting out of check: defend against a passed pawn)
- 4) 1. ♖xg4# (mate in one)
- 5) ♖e8xb5xh5xf7xa7

- 6) 1. ... ♖h8 2. ♜f8# (mate in one)
- 7) 1. ... ♜h1# (mate in one)
- 8) 1. ♙xc6 ♙xc6 2. ♜xc6 (twofold attack)
- 9) 1. ♜d1 (defend against mate: protecting)
- 10) 1. ♜xb3 (defending: protecting with a capture)
- 11) 1. ... ♜g3# (mate in one)
- 12) 1. e4 (defending: interposing)

## 8

- 1) ♜a7 / ♜h5  
♜d1 / ♜e3
- 2) 1. ... ♙xa4 (capture an unprotected piece)
- 3) 1. ... ♜xa2# (mate in one)
- 4) 1. ♙xg3 (getting out of check: capturing)
- 5) 1. ... ♜xd4! (1. ... ♜g1+? 2. ♙xf3) (capture an unprotected piece)
- 6) 1. ♜h6# (mate in one)
- 7) ♜b8-b1-e4+
- 8) 1. ♙xg4 (defend against mate: capture the guard)
- 9) 1. ... ♙h3 (defending: interposing)
- 10) 1. ... ♙xe4 (twofold attack)
- 11) 1. ♙xg4 (defending: capturing)
- 12) 1. ♜b5 (defending: protecting)

## 9

- 1) 1. dxc6 (profitable exchange)
- 2) 1. ♜c8+ ♜xc8 2. bxc8♜+ (cashing in a passed pawn)
- 3) 1. ... ♜xc2 (twofold attack)
- 4) 1. ... ♜g1# (mate in one)
- 5) 1. ♙xh3 (defend against mate: capture the guard / helper)
- 6) 1. ♖h4 ♜h5# (mate in one)
- 7) 1. ... f5 (defending: interposing)
- 8) 1. ♜f6# (mate in one)
- 9) 1. dxe5 (profitable exchange)
- 10) 1. ... ♜xd7! (1. ... ♜xd7? 2. ♙xd8) (getting out of check: avoid loss of material)
- 11) ♙b2-a3-f8-h6+
- 12) 1. ... ♜d6 (defending: protecting)

## 10

- 1) stalemate
- 2) 1. ♜xe4 (profitable exchange)
- 3) 1. ♜e6# (mate in one)
- 4) 1. ♜xe3 (capture an unprotected piece)
- 5) 1. ... ♜f8! (1. ... ♖h7? 2. ♜xf7) (getting out of check: avoid loss of material)
- 6) ♜a8 ♙c6 / ♜h8 ♙e5  
♜d1 ♙c4 / ♜h4 ♙e1/f2
- 7) 1. ♜e7# (mate in one)
- 8) 1. ♜h8# (mate in one)
- 9) 1. ♜xe2! (1. ♜c6+? ♖e6) (capture an unprotected piece)
- 10) 1. ... ♙c5 (defending: interposing)
- 11) 1. ♜c4 (defending: moving away)
- 12) 1. ♖e1 (defend against mate: moving away)

## 11

- 1) ♜b3-a3-a8-h8+

- 2) 1. ... ♖xe5 (twofold attack)
- 3) 1. ♕xf3! (1. ♖c2? ♕g2#) (defend against mate: capture the helper)
- 4) 1. b4 (defending: protecting)
- 5) 1. ... ♗xd3 (profitable exchange)
- 6) 1. ♖xg7#! (1. ♖xb7?) (mate in one)
- 7) ♖f7xg6xf6xf1xe2
- 8) 1. ♖xa6 (defending: moving away with a capture)
- 9) 1. ♖g3# (mate in one)
- 10) 1. ... ♖xc2! (1. ... ♖xh2+? 2. ♖xh2) (capture an unprotected piece)
- 11) 1. ♔f1 (1. ♔h1 ♖xh2#) (getting out of check: avoid mate)
- 12) 1. ♕f3 (1. ♖e1? ♕xe1+; 1. ♔d3? ♕xe2+) (defending: interposing)

## 12

- 1) 1. ... ♔xc7! (1. ... ♔xa6? 2. c8♖+) (getting out of check: avoid loss of material)
- 2) 1. ♗e5 ♕xe5 2. ♔xe5 ♔b6 3. b8♖+
- 3) 1. ♖xg3 (defending: moving away with a capture)
- 4) 1. ♗f2# (mate in one)
- 5) 1. ... ♖xf3 (profitable exchange)
- 6) 1. ... ♖e6 (1. ... ♖hg8? 2. ♖a1#) (defend against mate: interposing)
- 7) 1. ... b4 (defending: interposing)
- 8) ♗h7-f6-d7-b8+
- 9) 1. ♖h7 (getting out of check: interposing)
- 10) 1. ♕b4 (defending: protecting)
- 11) 1. ... ♕g5# (mate in one)
- 12) 1. ... ♔h8 2. ♖f8# (mate in one)

## 13

- 1) 1. ♕f6# (1. ♖xa8? ♖xb3+!) (mate in one)
- 2) 1. ♖g3 (defending: moving away)
- 3) 1. ♕xb8 (capture an unprotected piece)
- 4) Drawing
- 5) 1. ♕xg6 (profitable exchange)
- 6) 1. ♖a8#! (1. ♖cxd8?) (mate in one)
- 7) 1. ♕xe4 (defending: protecting with a capture)
- 8) 1. ... f6 (defend against mate: interposing)
- 9) ♖a2-g2-b7+
- 10) 1. ♖d8# (mate in one)
- 11) 1. ♔b1 (1. ♔d1 ♖d2#) 1. ... ♖b2# (mate in one)
- 12) 1. ... ♖f8! (1. ... ♖xe8? 2. ♖xe8+ ♖f8 3. ♖xf8#) (getting out of check: avoid mate)

## 14

- 1) 1. ♔a1 (defend against mate)
- 2) 1. ... ♖f1#; 1. ... ♖f1#; 1. ... ♖e3#; 1. ... ♖e2# (4x mate in one)
- 3) 1. ... ♖h1#
- 4) 1. ... ♖xd2 2. ♕xd2 ♖xd2 (twofold attack)
- 5) 1. ... ♕e8 (1. ... ♖e8? 2. ♖xd7) (getting out of check: avoid loss of material)
- 6) ♕a7-c5-b4-d2+
- 7) 1. ♕xf5 (defending: moving away with a capture)
- 8) 1. ♕xc8 (profitable exchange)
- 9) 1. ♖xb3! (1. ♕e6+? ♔xb7; 1. ♕xb3? ♔xb7) (capture an unprotected piece)
- 10) 1. ♖f2 (defending: X-ray protection)
- 11) 1. ... c6 (defending: interposing)
- 12) 1. ... ♕e5# (mate in one)

## 15

- 1) 1. ♕d2 (defending: protecting)
- 2) 1. ... ♖xd6 (profitable exchange)
- 3) 1. ♖xc8 ♖xc8 2. ♖xc8+ (twofold attack)
- 4) 1. f3# (mate in one)
- 5) 1. ♖c3 (defending: moving away)
- 6) 1. ♖e3 (defend against mate: protecting)
- 7) ♖d4xb5xc7xe6xg7xf5
- 8) 1. ♖g2 (1. ♖xf3 h1♚+) (getting out of check)
- 9) 1. ♖h2 (1. ♖g1 ♖xg2#) 1. ... ♖f1# (mate in one)
- 10) 1. ... ♖c6 (defending: interposing)
- 11) 1. ♖d3# (mate in one)
- 12) 1. ♖xf3! (1. ♖d8+? ♖f8!) (capture an unprotected piece)

## 16

- 1) ♖c5-a6-b4-c2+
- 2) 1. ♖e5 (1. e8♚? ♖h5#) (defend against mate: X-ray protection)
- 3) ♖d8 ♖b5 / ♖f6 ♖g7  
♖b1 ♖d2 / ♖h4 ♖g2
- 4) 1. ... gxf3 (profitable exchange)
- 5) 1. ♖e8#! (1. ♖xd2?) (mate in one)
- 6) 1. ... ♖a5 (defending: moving away)
- 7) 1. ♖xf7+ (twofold attack)
- 8) 1. ♖a8# (mate in one)
- 9) 1. ... ♖c4 (defending: interposing)
- 10) 1. ♖d5+ (exploiting vulnerability)
- 11) 1. ♖xh6 (defending: protecting with a capture)
- 12) 1. ♖c6# (mate in one)

## 17

- 1) 1. ... ♖xg2! (1. ... ♖d1+?) (defending: moving away with a capture)
- 2) 1. ♖e8# (mate in one)
- 3) 1. ♖e7 ♖xb2# (mate in one)
- 4) ♖d4-c6-e7-g6+
- 5) 1. ♖xh3 ♖d1+ 2. ♖g2 (defend against mate: capture the guard)
- 6) 1. ... ♖a8 (1. ... ♖d8 2. ♖xd8) (defend against a passed pawn)
- 7) 1. ... ♖e3 (defending: interposing)
- 8) 1. ♖c8# (mate in one)
- 9) 1. ♖xb8 ♖xb8 2. ♖xb8+ (twofold attack)
- 10) 1. ♖xb6 (defending: protecting with a capture)
- 11) 1. ... dxc3 (profitable exchange)
- 12) 1. ♖xa3! (1. ♖e8+? ♖f8) (capture an unprotected piece)

## 18

- 1) 1. ... ♖d1#! (1. ... ♖xa6?) (mate in one)
- 2) 1. ♖xf6 ♖xf6 2. ♖xf6 (twofold attack)
- 3) 1. ♖xc4 (defending: capturing)
- 4) 1. ♖xd7 (profitable exchange)
- 5) 1. b4 (defending: interposing)
- 6) Drawing
- 7) ♖h2-h7-g8+
- 8) 1. ... ♖d3 (defending: moving away to a protected square)
- 9) 1. ♖xf1! (1. ♖xf1? ♖xe2) (getting out of check: avoid loss of material)
- 10) 1. ♖f1 (defend against mate: moving away)

- 11) 1. ... g5# (mate in one)  
 12) 1. ♖xd7 (1. ♗c4 ♖d1+; 1. ♕xd7 ♖xd2) (twofold attack with X-ray protection)

## 19

- 1) 1. ... ♖xb1# (mate in one)  
 2) 1. ♕xf5 (capture an unprotected piece)  
 3) ♕c5xe3gx5h4xe7xb4  
 4) 1. ♖xf1 gxf1♖+ 2. ♗xf1 (defend against a passed pawn)  
 5) 1. ♖g8# (1. ♖h5+ ♗g7) (mate in one)  
 6) 1. ♖a6 (defending: moving away to a protected square)  
 7) ♕h7-c2-d1-g4  
 8) 1. ... ♕xa1 (profitable exchange)  
 9) 1. ♗e4 (defending: interposing)  
 10) 1. g4 (defending: twofold protecting)  
 11) 1. ♗xf7# (mate in one)  
 12) 1. ... f5 (defend against mate: interposing)

## 20

- 1) 1. ♕h6 (defending: moving away)  
 2) 1. ♕xd7! (1. ♗xb6? ♗xb6) (capture an unprotected piece)  
 3) 1. h4# (mate in one)  
 4) 1. ♗c5 ♖g5# (mate in one)  
 5) 1. ♖e4 (defend against mate: X-ray protection)  
 6) 1. ♖d6 (defending: protecting)  
 7) 1. ♖c8! (1. ♖h3? ♖h8) (cashing in a passed pawn)  
 8) 1. ♖c8# (mate in one)  
 9) 1. d4! (1. c3? ♗xc3) (defending: interposing)  
 10) ♕a5-e1-h4-e7+  
 11) 1. ♗f1! (1. ♗h1? ♖xe2) (getting out of check: avoid loss of material)  
 12) 1. ... ♖e1+ 2. ♗f1 ♖xf1# (exploiting vulnerability)

## 21

- 1) 1. ... ♗d5! (defending: moving away and interposing)  
 2) 1. ♗xd6 (defending: protecting with a capture)  
 3) 1. ... ♗g7 (defending: moving away)  
 4) 1. ♖f5#! (1. ♖xg7?) (mate in one)  
 5) 1. ♖c6#! (1. ♖xe2?) (mate in one)  
 6) 1. ♖f2! (1. ♗f1? ♕d3#; 1. ♗h1? ♖e1+ 2. ♖f1 ♖xf1#) (getting out of check: avoid mate)  
 7) 1. ♖h7# (mate in one)  
 8) ♕h5-g6-c2-a4+  
 9) 1. ... ♗xf6! (1. ... ♗xd2?) (profitable exchange)  
 10) 1. ♖g2 (defend against mate: protecting)  
 11) 1. g6#! (1. ♗xe5? ♕xe5) (mate in one)  
 12) 1. ♗f3# (mate in one)

## 22

- 1) 1. ♕c4 (defend against mate: protecting)  
 2) 1. ♖e7# (mate in one)  
 3) 1. ♗xc8 (defending: moving away with a capture)  
 4) 1. gxf4! (1. ♖xe5? ♕xe5!) (profitable exchange)  
 5) ♗f4-e2-c1-a2+  
 6) 1. ... ♖h2#! (1. ... ♗xd7?) (mate in one)  
 7) 1. ... f5+ 2. ♗xf5 gxf5+ (exploiting vulnerability)  
 8) 1. ... ♕xh3 (capture an unprotected piece)

- 9) 1. ♔h2 (defending: protecting)
- 10) 1. ... ♖c6 (defend against a passed pawn)
- 11) 1. ♖d3# (mate in one)
- 12) 1. ♔d2! (1. ♖e3? ♜xe3+; 1. ♔c4? ♜xd1) (getting out of check: avoid loss of material)

## 23

- 1) 1. ♜xf5! (1. ♜xb7? ♜f1#) (capture an unprotected piece)
- 2) 1. ♜xe7 ♜xe7 2. ♜xe7 ♔xe7 (twofold profitable exchange)
- 3) 1. ♔d3 ♜c4# (mate in one)
- 4) 1. ♜xb6 (defending: moving away with a capture)
- 5) 1. ♖xc6+! (1. ♖xf5? ♜xd1+) (capture an unprotected piece)
- 6) 1. ♖xb6! (1. ♜xf7? ♜xe1+) (capture an unprotected piece)
- 7) 1. ... f6 (defending: interposing)
- 8) ♜f3xd5xf7xc4xa6xb7
- 9) 1. ... ♜a1 (defend against mate: protecting)
- 10) 1. ... ♜d1+ 2. ♜e1 ♜xe1# (exploiting vulnerability)
- 11) 1. ♜xg3+ (defending: capturing)
- 12) 1. ... ♔f6! (1. ... ♔h7? 2. ♜f8#) (getting out of check: avoid mate)

## 24

- 1) 1. b7! (1. bxc7? ♔d7) (cashing in a passed pawn)
- 2) 1. ♜f7#! (1. ♜xd6? c1♜) (mate in one)
- 3) 1. ♜d1 (defending: interposing)
- 4) ♜d8 ♖b6 / ♜h8 ♖g7  
♜b1 ♜c2 / ♜e1 ♜f2
- 5) 1. ♜xd6! (1. ♜xb5? ♜xd2) (capture an unprotected piece)
- 6) 1. ♜b8# (1. ♜xd8+? ♜xd8; 1. ♜c5+? ♜c6) (mate in one)
- 7) 1. fxg6 (defend against mate: protecting by line clearing with X-ray protection)
- 8) 1. ♜g7# (mate in one)
- 9) ♜h2-c7-d8+
- 10) 1. ... ♜dxd4 (1. ... ♜cxd4? 2. ♜xd5)
- 11) 1. ♔f2! (1. ♔e2? ♜xg2) (getting out of check: avoid loss of material)
- 12) 1. ♔g6 (1. ♔h8 ♖f7+ 2. ♔h7 ♖g5+ 3. ♔g6 is a loss of time: 3. ♔h6? ♔f7) (cashing in a passed pawn)

## 25

- 1) 1. ... ♜xc5 (defending: moving away with a capture)
- 2) Drawing
- 3) 1. ♜a2# (mate in one)
- 4) 1. ♜h6 (defending: moving away)
- 5) 1. ♜xd4 (twofold attack)
- 6) 1. ♜h8+ (1. ♜a8+? ♜xa8+) 1. ... ♜g8 2. ♜xg8# (exploiting vulnerability)
- 7) 1. ♔g2! (1. ♔e2? f3#) (getting out of check: avoid mate)
- 8) ♜f8-e7-d8-b6+
- 9) 1. ♔d1 ♜b1#; 1. ♜f5 ♜h1# (mate in one)
- 10) 1. ♜f1 (defend against mate: interposing)
- 11) 1. ... f6+ 2. ♔f5 ♔f7
- 12) 1. ♜xg4! (1. ♜xc6? ♜xd1#) (capture an unprotected piece)

## 26

- 1) 1. ♜d3# (mate in one)
- 2) 1. ♜h1 (defending: protecting by line clearing)
- 3) 1. ♜xd4 (1. ♔d3? ♜xf4) (getting out of check: avoid loss of material)
- 4) 1. ♜c8#! (1. ♜xg3? a2!) (mate in one)

- 5) 1. ... ♕h6#! (1. ... ♕xc3?) (mate in one)
- 6) 1. ♖axe6 ♖c1+ 2. ♖e1 (capture an unprotected piece)
- 7) ♖a7-f7-f6-h6+
- 8) 1. ... ♖xd8 (1. ... ♗xd8 2. ♗xb7) (twofold attack)
- 9) 1. ... ♔c8 2. ♖c7# (mate in one)
- 10) 1. ♖b1 (defend against mate: X-ray protection)
- 11) 1. ♖e5 (defend against mate: X-ray protection)
- 12) 1. ♗xd4 (defending: capturing)

## 27

- 1) 1. ♕xf5 (defending: moving away with a capture)
- 2) 1. ... ♔a5 2. ♗b5# (mate in one)
- 3) 1. ... ♗xc3! (1. ... ♗xd6? 2. ♗xg7#) (capture an unprotected piece)
- 4) 1. b8 ♖ (1. b8♗? stalemate) (avoid stalemate)
- 5) ♔e4xg5xf7xd6xc4xb6
- 6) 1. ♔h4! (1. ♔h2? ♗g2#) (getting out of check: avoid mate)
- 7) 1. ... ♗g2#! (1. ... ♗xa4? 2. ♖xa4) (mate in one)
- 8) 1. ♔c3 (defending: interposing)
- 9) 1. ♗xf3! (1. ♗xc7? ♗xc3) (defending: protecting with a capture)
- 10) 1. ♖d6# (mate in one)
- 11) 1. ♔b1 (1. ♖xf7? ♖f1#) 1. ... ♖f1+ 2. ♔a2 (defend against mate: moving away)
- 12) 1. b4 (defending: protecting)

## 28

- 1) 1. ♗xg4! (1. ♗b7+? ♔xe5) (capture an unprotected piece)
- 2) 1. ♖xe6 (1. ♕xe6 ♖d1+) (capture an unprotected piece)
- 3) 1. ♗h4 (defending: moving away)
- 4) 1. ... ♗xe5+ 2. ♗xe5 ♖xe5 (defend against mate: X-ray protection with a capture)
- 5) 1. ♔b3 (defending: interposing)
- 6) ♔e4-g3-e2-c1+
- 7) 1. ♔e3! (1. ♖d7? ♖f1+ 2. ♔e3 d1♗; 1. c7? ♖f1+ 2. ♔e5 d1♗; 1. ♖b2? ♖f1+ 2. ♔e3 d1♗) 1. ... ♖e1+ 2. ♔xd2 (defend against a passed pawn)
- 8) 1. ♕xb2 (getting out of check: capturing)
- 9) 1. ♗xc6#! (1. dxc6+?) (mate in one)
- 10) 1. ... ♖e3# (mate in one)
- 11) 1. ♗a5 (defending: moving away and maintaining the protection)
- 12) 1. ♖exe6 (1. ♖axe6? ♖c1+) (twofold attack with line clearing)

## 29

- 1) 1. ♖xg7! (1. ♖d8+? ♔xa7) (twofold attack)
- 2) 1. ♕e5 (defend against mate: protecting)
- 3) 1. ... ♔e5 (defending: protecting)
- 4) 1. ♔xh7# (mate in one)
- 5) 1. ... ♗f2# (mate in one)
- 6) ♗a8-g8-g1+
- 7) 1. ♗f6#; 1. g4# (2x mate in one)
- 8) 1. ♗xb5 (defending: moving away)
- 9) 1. ♗xf5! (1. ♗xd6? ♗xf3) (capture an unprotected piece and maintaining the protection)
- 10) 1. ♗xf2 (1. ♔b1 ♖g1#) 1. ... ♖xf2+ 2. ♔b1 (getting out of check: avoid loss of material)
- 11) 1. ♗xc6! (1. ♖xc6? ♖xe4) (twofold attack)
- 12) 1. ♔d3 a2 2. ♔c2 (defend against a passed pawn)

## 30

- 1) 1. ♔xd6! (1. ♖xd6? ♕xe4) (twofold attack)

- 2) 1. ♖xe7 (capture an unprotected piece)
- 3) ♙d8-g5-h6-g7+
- 4) Drawing
- 5) 1. ♙g3# (mate in one)
- 6) 1. bxa6 ♖c6
- 7) 1. ... g5#! (1. ... ♖xc5?; 1. ... ♖h5+? 2. ♙xh5) (mate in one)
- 8) 1. ... ♖a1+ 2. ♙d1 ♖xd1# (exploiting vulnerability)
- 9) 1. ♖e8! ♖xd7 2. ♖xf8 (cashing in a passed pawn)
- 10) 1. ... ♖f8 (1. ... ♖g6? 2. ♖xe7; 1. ... ♖g8? 2. ♖xe7) (getting out of check: avoid loss of material)
- 11) 1. ♖xd4! (1. ♖h1? ♙xc3) (getting out of check: avoid a bigger loss of material)
- 12) 1. ♖a6 (defending: moving away)

### 31

- 1) 1. ♖c8+ ♖xc8 2. bxc8♖+ (cashing in a passed pawn)
- 2) 1. ... ♙c8 (defend against a passed pawn)
- 3) 1. ♙b5+ (defending: moving away)
- 4) 1. ♖e5+ (1. ♖b8+? ♙d8) 1. ... ♖f6 2. ♖xf6# (exploiting vulnerability)
- 5) ♖a5 ♖c8 ♖b6 ♖a7
- 6) 1. ♖xe5 (capture an unprotected piece)
- 7) 1. g5# (mate in one)
- 8) 1. ♖f5# (mate in one)
- 9) 1. ... ♖f8 (defend against mate: interposing)
- 10) 1. ... ♖a8 (1. ... ♙xc6 2. ♖d8#) (getting out of check: moving away)
- 11) 1. ♖a5 (1. ♖a7 ♖xa4#) 1. ... ♖xa4# (mate in one)
- 12) 1. ... ♖xc8 (1. ... ♖xc8 2. d8♖#) 2. dxc8♖+ ♖xc8 (defend against a passed pawn)

### 32

- 1) 1. ♖xf1+! (1. ♖xf1? ♖xd2) (getting out of check: avoid loss of material)
- 2) 1. ♖d5# (1. ♖g6+? ♖g8 2. ♖xe8 ♖xc2) (mate in one)
- 3) 1. ... ♖a5 (defending: moving away)
- 4) 1. ♙xc2! (1. ♙xd7? ♙xa4) (capture an unprotected piece)
- 5) 1. ... ♖xg2#! (1. ... ♖xf4?) (mate in one)
- 6) 1. g3# (mate in one)
- 7) 1. ♙b5 (defending: interposing)
- 8) ♖a1-g1-g8-e8+
- 9) 1. ♖xd5! (1. ♖xd5? exd4) 1. ... exf4? 2. ♖xd6 (twofold attack)
- 10) 1. ♙f1! (1. ♖d5? ♖d1+ 2. ♙f1 ♖xf1#) (defend against mate: protecting)
- 11) 1. ... ♖h2 (defend against a passed pawn)
- 12) 1. ♖xd4! (1. ♖xd4? gxf3) (twofold attack)

### 33

- 1) 1. ♖h7# (mate in one)
- 2) 1. ... ♙xf3 (profitable exchange)
- 3) ♖d2-b1-a3-c2+
- 4) 1. ♖xf1 (capture an unprotected piece)
- 5) 1. ♖xf6! (1. ♖xh7+? ♖xh7; 1. ♖f8+? ♖xf8) (capture an unprotected piece)
- 6) 1. ... ♖g6 (defending: moving away)
- 7) 1. ♙xc8! (1. ♖b8? ♖xa6) (defending: capturing)
- 8) 1. ♖a1 (defending: protecting)
- 9) ♖d7 ♖b6 / ♖e8 ♖g5  
 ♖a1 ♖d3 / ♖g4 ♖f2
- 10) 1. ... ♖h8 (1. ... ♖g8? 2. Rf8#) (getting out of check: avoid mate)
- 11) 1. ... ♙f3# (mate in one)
- 12) 1. ♖b1 (1. ♖xd7? ♖e1#) (defend against mate: moving away and protecting)

**34**

- 1) 1. ♖a5# (mate in one)
- 2) 1. ♟xc3 (defending: capturing)
- 3) 1. ♜xh8 (1. ♖xe5 ♜xa8; 1. ♟c6+ ♞xc6) (capture an unprotected piece)
- 4) ♖b5-b4-f8+
- 5) 1. ... cxd5 2. ♟xa6 (capture an unprotected piece)
- 6) 1. ♖xe4 (capture an unprotected piece)
- 7) 1. ... ♜f3 (defending: interposing)
- 8) 1. ♞xd6! (1. ♖xc6? ♜xc6) 1. ... ♖xc4 2. ♞xc4 (profitable exchange)
- 9) 1. ... ♞f4# (mate in one)
- 10) 1. ♜c2 (defend against mate: X-ray protection)
- 11) 1. ♜xd6 (defending: protecting with a capture)
- 12) 1. ... ♞xg8! (1. ... ♜xg8? 2. ♞f7#) (getting out of check: avoid mate)

**35**

- 1) 1. ♖xh6! (1. ♖g5?) (defending: moving away with a capture)
- 2) 1. ♟a3! (1. ♟f6? ♜c1#) (defending: protecting)
- 3) 1. ... ♞c6# (mate in one)
- 4) 1. ♟e3 (1. ♞e3 ♜xd2; 1. ♞g2 ♟b7#; 1. ♞h1 ♟b7#) (getting out of check: interposing and avoid mate or loss of material)
- 5) 1. gxf4#! (1. gxh4+? ♞xh4) (mate in one)
- 6) 1. ... ♞xg8+ (1. ... ♞xg8?; 1. ... ♖xg8) (avoid stalemate)
- 7) 1. ♜xg7! (1. ♜f5+? ♞xe4) (capture an unprotected piece)
- 8) ♟c8-e6-g8-h7+
- 9) 1. ♟xd5+ ♞f8 2. ♞xe1 (capture an unprotected piece)
- 10) 1. ♞h4! (1. ♞h2? ♜h3#) (getting out of check: avoid mate)
- 11) 1. ... ♟e7 (defending: interposing)
- 12) 1. ♞h7+ (1. ♞xc1? ♖xg5+) 1. ... ♖xh7 2. ♟xh7 (exploiting vulnerability)

**36**

- 1) 1. ♟xg5 (capture an unprotected piece)
- 2) 1. ♜e7#! (1. ♞d6+ ♞d8; 1. ♟xf8 ♞xf8) (mate in one)
- 3) ♞c3xd5xf6xe4xc5xd3
- 4) 1. ... ♞e7 (defend against a passed pawn)
- 5) 1. hxg5# (mate in one)
- 6) 1. ♟h3+ ♞g4 2. ♟xg4+ (exploiting vulnerability)
- 7) 1. ... ♜xc1 2. ♜xc1 (mate in one)
- 8) 1. ♟f3 (defending: X-ray protection)
- 9) 1. a3 (defend against mate: protecting)
- 10) 1. ... f2# (mate in one)
- 11) 1. ♞xf6+! (1. ♞xe7? ♜f1#) (profitable exchange)
- 12) 1. ♖g1+ (1. ♞h2? ♖xb4) (getting out of check: avoid loss of material)

**37**

- 1) 1. ♜f2 (defend against a passed pawn)
- 2) 1. ♟f6+ ♖xf6 2. ♖xf6+ (exploiting vulnerability)
- 3) ♜a1-a2-h2-h6+
- 4) 1. ♜xd7 (capture an unprotected piece)
- 5) 1. ... fxg4# (mate in one)
- 6) 1. ... ♜xb6! (1. ... ♜d1+? 2. ♞xb2) (capture an unprotected piece)
- 7) 1. dxе5 fxe5 2. ♟xe5 (defending: protecting with a capture)
- 8) 1. ♟a6#; 1. ♜b8#; 1. ♖b8# (3x mate in one)
- 9) Drawing
- 10) 1. ... ♞c6 (defending: moving away to a protected square)

- 11) 1. ♖xa5# (mate in one)
- 12) 1. ♖xh4 (1. ♔e1 ♖xf2#) (defend against mate: protecting with a capture)

### 38

- 1) ♗c5-d7-f6-h5+
- 2) 1. ♔g1 (defend against mate: moving away)
- 3) 1. ♙xd5+! (1. ♙xg4? ♖xc5) 1. ... ♕h8 2. ♖c1 (capture an unprotected piece)
- 4) 1. ... ♙g8 (defend against a passed pawn)
- 5) 1. ... g6# (1. ... ♖xh3+ 2. ♔g4) (mate in one)
- 6) 1. ♖e6#; 1. ♖e7# (2x mate in one)
- 7) 1. ♙xh7+! (1. ♙xc4? ♖h1#) (profitable exchange)
- 8) 1. ... ♙xd4! (1. ... ♙f6?) (defending: moving away with a capture)
- 9) 1. ♖b3 (avoid stalemate)
- 10) 1. ♗f5# (mate in one)
- 11) 1. ♖xb6! (1. ♖f5+? ♕xd6) (capture an unprotected piece)
- 12) 1. ♖f1 (defending: twofold protecting)

### 39

- 1) ♗e6-c7-a8-b6+
- 2) 1. ♗xe6 ♖xd5 2. ♖xd5 (profitable exchange)
- 3) 1. ... ♖xe5+ (1. ... ♗xc4 2. ♖xe7 ♕xe7 3. ♕xc4) (capture an unprotected piece)
- 4) 1. ♖fa1 (defending: twofold protecting)
- 5) 1. ♙c3+ ♕xc3 2. ♕xe2 (defend against a passed pawn)
- 6) 1. ... g5 (defending: interposing)
- 7) 1. ... ♖xc4! (1. ... ♖c8? 2. ♖xc3!) 2. ♙xc4 ♗e4 (defending: capturing)
- 8) 1. ... ♖c2# (mate in one)
- 9) ♖f8 ♙g6 ♗e6 ♕h8
- 10) 1. ♖e2 (defend against mate: protecting)
- 11) 1. ♖f5#! (1. ♙xb4? ♖a2) (mate in one)
- 12) 1. ... ♖b7# (mate in one)

### 40

- 1) 1. ♙xg7# (mate in one)
- 2) 1. ♖xe6#! (1. ♖xa8? fxg5; 1. ♙h6? ♗c7) (mate in one)
- 3) 1. ... ♖xb6! (1. ... ♖xf2? 2. ♙xf2) (capture an unprotected piece)
- 4) 1. ♖a4 (defend against mate)
- 5) 1. ... ♗e6 (defending: interposing)
- 6) ♙e5-f6-e7-b4+
- 7) 1. ♕xg6 (1. ♙xg6?; 1. ♕f5 ♖h6) (avoid stalemate)
- 8) 1. ... ♖e2# (1. ... ♖xa8?) (mate in one)
- 9) 1. ... ♖xh3! (1. ... ♖xd3+? 2. ♖xd3) (capture an unprotected piece)
- 10) 1. ♕c8 ♕f6 2. d8♖+ ♙xd8 3. ♕xd8 (cashing in a passed pawn)
- 11) 1. ♗f2! (1. ♗g3+? ♕e1) (defend against a passed pawn)
- 12) 1. ... ♕f5 (1. ... h4? 2. ♖g5#) (defend against mate: protecting)

### 41

- 1) 1. ... ♙d4#! (1. ... ♖xc4?) (mate in one)
- 2) 1. ... ♖c8 (defend against mate: protecting the knight and the back rank)
- 3) 1. ... f6 (defend against mate: protecting by line clearing)
- 4) 1. ♙xb3# (mate in one)
- 5) 1. ♖xa5 (capture an unprotected piece)
- 6) 1. ... d5 (defending: protecting)
- 7) ♖f3-d1-a4+
- 8) 1. ♖e5# (mate in one)

- 9) 1. ♖c6#; 1. ♖b8#; 1. ♜b6# (3x mate in one)
- 10) 1. ♜xc6! (1. ♜xd7? ♚c1+) (profitable exchange)
- 11) 1. ♚xe5# (mate in one)
- 12) 1. ... ♙f5! (1. ... ♚c8? 2. ♚fxf8) (defending: interposing)

#### 42

- 1) Drawing
- 2) ♚b1-b5-g5-g6+
- 3) 1. ... ♚xd5 (defend against mate: capture the helper)
- 4) 1. ♜xc2! (1. ♜xe6? ♚c1#) (profitable exchange)
- 5) 1. ♚d5! (1. ♚b1? ♚e1) (defend against a passed pawn)
- 6) 1. ♚g4#! (1. ♙xf5?) (mate in one)
- 7) 1. ... ♖xg2#! (1. ... ♜xd5? 2. fxg4) (mate in one)
- 8) 1. ... fxg5 (defend against mate: capture the helper)
- 9) ♜c4xd6xb7xa5xc6
- 10) 1. ♙xh4! (1. ♙xd6? ♚e1#) (capture an unprotected piece)
- 11) 1. ♚xf6#! (1. ♖xf6+? ♜h5) (mate in one)
- 12) 1. ... ♚cxb5! (1. ... ♚bxb5? 2. ♜xc5) (twofold attack)

#### 43

- 1) 1. ... ♜xe3+ (capture an unprotected piece)
- 2) ♚c3xe3xh3xb3xb5xc5
- 3) 1. ♙g2 (defending: interposing)
- 4) 1. ... ♙f2# (1. ... ♖xe7?) (mate in one)
- 5) ♖b5 ♙c5 ♙d5 ♜a8
- 6) 1. ... e2 (avoid stalemate)
- 7) 1. ... ♖e4+ 2. ♖xe4 fxe4 (defend against mate: exchange the chaser)
- 8) 1. ... ♜g8 (defend against mate)
- 9) 1. ... ♙xf5 (capture an unprotected piece)
- 10) 1. ♜f7#! (1. ♜xe4?) (mate in one)
- 11) 1. ♚a3! (1. ♚c2? ♚h1+) (defend against a passed pawn)
- 12) 1. ♜e2# (mate in one)

#### 44

- 1) 1. ♚e2#! (1. ♜xf6?) (mate in one)
- 2) 1. ... ♖f8#! (1. ... ♖xg2?) (mate in one)
- 3) 1. ... c4 (defending: interposing)
- 4) 1. ♜xe3 (defend against mate: capture the guard)
- 5) ♜b5-a7-c8-e7+
- 6) 1. ♖xb2! (1. ♖xe7? ♜xd1) (capture an unprotected piece)
- 7) 1. ... ♖f7 (defending: moving away)
- 8) 1. ♜h3! (1. ♜f2? ♜xg4+; 1. ♙f3? ♙xf3+) (getting out of check: avoid loss of material)
- 9) 1. ♜f3# (mate in one)
- 10) 1. ♖e3#; 1. ♖e4#; 1. ♜d5# (3x mate in one)
- 11) 1. ♖e1 (defending: protecting the knight and the back rank)
- 12) 1. ♚xc5! (1. ♙xc5? ♜xc1) 1. ... ♜xc5 2. ♙xc5 (twofold attack)

#### 45

- 1) 1. ♖xb8+ ♜g7 2. ♖xf4 (capture an unprotected piece)
- 2) 1. ♚e2 (defending: twofold protecting)
- 3) 1. ♚g3# (mate in one)
- 4) 1. ♙d6! (1. ♙h6? b2 2. f8♖+ ♙xf8) (cashing in a passed pawn)
- 5) 1. ... ♖f3 (defending: moving away)
- 6) 1. ... ♜e8! (1. ... ♜e6? 2. ♙h3#) (getting out of check: avoid mate)

- 7) ♕d5-c6-d7-g4+
- 8) 1. ... ♖e3# (mate in one)
- 9) 1. axb3 (1. ♖xb3 ♗c3#) 1. ... ♗a6# (mate in one)
- 10) 1. ... g1♗ (1. ... a1♗? 2. ♜c6#) (defend against mate)
- 11) 1. ... ♗g5 (1. ... ♗g6 2. hxg6+) (avoid stalemate)
- 12) 1. e4 (defending: interposing)

#### 46

- 1) ♗c3xg3xg5xc5xc6 (c4) xc4 (c6)
- 2) 1. ... ♗f6 (defending: X-ray protection)
- 3) 1. ♜e1 d2+ 2. ♜d1 (defend against a passed pawn)
- 4) 1. ♗d8# (mate in one)
- 5) 1. ♗d6#; 1. ♗c6#; 1. g5+? ♜xf5 (2x mate in one)
- 6) 1. ♗xd7! (1. ♗xe5? ♗xd2) (capture an unprotected piece)
- 7) 1. ♜b4 (1. b4 cxb3) (defending: interposing)
- 8) 1. ... b3# (mate in one)
- 9) 1. ... ♜f8 2. ♗h8# (mate in one)
- 10) 1. ... ♜e4# (mate in one)
- 11) 1. ♗f1 (1. ♜f1 ♕a6 (1. ... ♗xg2+ 2. ♜e2 ♗xf2+)) (defend against mate: protecting)
- 12) 1. ... ♗e1#! (1. ... ♗xc4?) (mate in one)

#### 47

- 1) 1. ... ♗h1#! (1. ... ♕xg3+?) (mate in one)
- 2) 1. ♗xh3! (1. ♗xc5? ♗f1#) (capture an unprotected piece)
- 3) 1. ♗xa8 ♗xa8 2. ♕xa8 ♗xa8 (twofold profitable exchange)
- 4) 1. ... ♜d4 (defending: interposing)
- 5) 1. ... ♗xd6 (1. ... ♜xd1+ 2. ♗xd1) 2. ♗xd6 (profitable exchange)
- 6) 1. ♗g3 (defending: moving away and maintaining the protection)
- 7) ♗c3-c8-g8-g6+
- 8) 1. ... ♜xc4#! (1. ... ♗xb8? 2. ♗xb8+) (mate in one)
- 9) ♗b8 ♜c6 / ♗h7 ♜f8 / ♗b2 / ♜c2 / ♗g4 ♜f2
- 10) 1. h4 (1. g4? ♗g1#) (defend against mate: moving away)
- 11) 1. ... ♜h6 (1. ... ♜g8 2. ♗f8#; 1. ... ♜h8 2. ♗f8#) (getting out of check: avoid mate)
- 12) 1. ♗c1 bxc1♗ 2. ♜xc1 (defend against a passed pawn)

#### 48

- 1) 1. c8♗ ♗h7+ 2. ♗h3 (defending against mate)
- 2) 1. ♗b6 (defending: moving away)
- 3) 1. ♗g7# (mate in one)
- 4) 1. ... fxe5 2. dxe5 ♕c5 (defending: capturing and moving away to a protected square)
- 5) ♗c5xa3xh3xf5xe4xe2
- 6) 1. ♕g4# (1. g4+) (mate in one)
- 7) 1. ... ♜a4 (1. ... ♜c4 2. ♜d2# (2. ♜a5#); 1. ... ♜c6 2. ♜a5#; 1. ... ♜a6 2. ♜c5#) 2. ♜c5# (mate in one)
- 8) 1. ... ♗b7+ (1. ... ♗xa2?) (avoid stalemate)
- 9) 1. ... ♕d8 (defending: twofold protecting)
- 10) 1. ♗xb6 ♗xb6 2. ♗xb6 (defending: protecting with a capture)
- 11) 1. ♗h8#! (1. ♗xe4?) (mate in one)
- 12) 1. ♗xd2 (1. ♗xd2? ♗xf4) (getting out of check: avoid loss of material)

#### 49

- 1) 1. ♕a1 (defending: moving away and maintaining the protection)
- 2) 1. ... ♜d5 (defending: interposing)
- 3) Drawing

- 4) 1. ♖xb3! (1. ♜xb3? ♖xb5) (twofold attack)
- 5) 1. ♖b2! (1. ♙b2? ♖xf4) (defending: interposing)
- 6) ♖a1-g1-g8+ / ♖a1-h1-c6+
- 7) 1. ... ♖b8# (mate in one)
- 8) 1. ... ♜b7#! (1. ... ♚xe2?) (mate in one)
- 9) 1. ♖h3+! (1. ♜g1? ♖xe1+) (getting out of check: avoid loss of material)
- 10) 1. ♜xd5#! (1. ♜xe6+? ♜xe6) (mate in one)
- 11) 1. ♙e3! (1. ♜f1? hxg5) (getting out of check: avoid loss of material)
- 12) 1. ♜f1 (defend against mate: protecting)

## 50

- 1) 1. ♖h5# (1. ♖e6+ ♜xe6; 1. ♖e8+ ♙xe8; 1. ♖c4+ ♜g6) (mate in one)
- 2) 1. ♚xc8+ ♜g7 2. fxe3 (capture an unprotected piece)
- 3) 1. b3 (1. ♖b1? ♖a4#; 1. ♖a8? b3#) (defend against mate: moving away)
- 4) ♙e1-g3-b8-a7+
- 5) ♖f6 ♙f7 ♜h7 ♜f8 or ♖f8 ♙f7 ♜f6 ♜h7
- 6) 1. ... ♚f7! (1. ... ♙h8? 2. ♜h6#) (defending: interposing)
- 7) 1. ♖d6# (mate in one)
- 8) 1. ... ♜f6 (defend against mate: moving away)
- 9) 1. ... gxf5 2. exf5 ♙d5 (defending: capturing and moving away to a protected square)
- 10) 1. ♜d2! (1. ♜d3? ♙xb3) (getting out of check: avoid loss of material with protecting by line clearing)
- 11) 1. ... f1 ♚ (1. ... f1 ♖?; 1. ... f1 ♙ 2. ♜xf3?; 1. ... ♜e4 2. ♜xf2?) (avoid stalemate)
- 12) 1. ♜xc4+ ♜c5 2. ♜b2 ♜xc4 (defend against a passed pawn by clearing a square)

## 51

- 1) 1. ♙xc5+ ♜g8 2. ♚xd2 (capture an unprotected piece)
- 2) ♙h8-e5-b8-a7+
- 3) 1. ... ♖xf1+ 2. ♖xf1 ♙xf1 3. ♜xf1 (twofold profitable exchange)
- 4) 1. ... ♜h6 2. ♖g5# (mate in one)
- 5) 1. ♜d7# (mate in one)
- 6) 1. ♜xd2 (1. ♜a1?) (defending: moving away with a capture)
- 7) 1. ♙xe4#! (1. ♚xg6?) (mate in one)
- 8) 1. d5! (1. ♙xc6? ♖xc6+) (defending: interposing)
- 9) 1. ♖xe1! (1. ♜f2? ♚f1#) 1. ... ♚xe1+ 2. ♜f2 ♚f1+ 3. ♜e2 (getting out of check: avoid mate)
- 10) 1. ... g5 (1. ... ♚xa3? 2. ♚h4#) (defend against mate: protecting)
- 11) 1. ♙c1#! (1. gxh4+? ♜xh4; 1. f4+? gxf3! (1. ... exf4? 2. gxf4#) (mate in one)
- 12) 1. ... ♖e7 (defending: twofold protecting)

## 52

- 1) 1. ♜g3 g4 (avoid stalemate)
- 2) 1. ♖d6#! (1. exf6+?; 1. ♜xa8?) (mate in one)
- 3) ♚h5-h8-e8-e6
- 4) 1. ... ♜e3 (defending: interposing)
- 5) 1. ... ♚xb6! (1. ... ♜xb6? 2. ♚xf6; 1. ... ♚xf2? 2. ♙xf2) (capture an unprotected piece)
- 6) ♖a5 ♚c8 / ♖f8 ♚h6 (or the other way around)  
♖d1 ♚a1 / ♖h3 ♚f1
- 7) 1. ♖xb5! (1. ♖xe8? ♚b1+ 2. ♖e1 ♚xe1#) 1. ... ♚e1+ 2. ♖f1 ♚xf1+ 3. ♜xf1 (capture an unprotected piece)
- 8) 1. ♚gxb6 (defend against mate: protecting) + capturing
- 9) 2. ♙xc3 (2. ♚xc3? ♖xd1+) (defending: recapture with the right piece)
- 10) 1. ♚xb6 cxb6 (defending: moving away avoid loss of material)
- 11) 1. ... ♚f7! (1. ... ♚d8 2. ♚fx8) (defending: interposing)
- 12) 1. ... ♚c8 (defending: X-ray protection)

## 53

- 1) 1. ♖g1 (1. ♜g2? ♜xb1+) (getting out of check: avoid loss of material)
- 2) 1. ♜xf3! (1. ♜b7+? ♖h6) 1. ... gxf3 (defending: capturing)
- 3) 1. ♙h6#! (1. ♙xd4?; 1. ♚xd4?) (mate in one)
- 4) 1. ♜a3# (mate in one)
- 5) 1. ... ♙b7 (defending: X-ray protection by line clearing)
- 6) ♙e5xg3xh2xc7xb6xf2
- 7) 1. ♖h3 (1. g4 ♜h6#) 1. ... ♜xg3# (mate in one)
- 8) 1. ... ♜a1# (mate in one)
- 9) 1. ♙xb3! (1. ♙xc6? ♚xd1+; 1. ♙xf7+ ♖xf7 2. ♚xd8 ♜xd8) 1. ... ♚xd1+ 2. ♙xd1 (capture an unprotected piece)
- 10) 1. ... ♜c7 (defending: protecting)
- 11) 1. ♙f4 (defending: interposing)
- 12) 1. ♜b5 (1. d7? ♜a6#) (defend against mate: interposing)

## 54

- 1) 1. ♜e3! (1. ♜e1? ♙xd4) (defending: protecting the bishop and maintaining the protection of the knight)
- 2) ♚e8 ♙e5 ♙h5 ♖f7
- 3) ♜a2-f2-a7+
- 4) 1. ♜f8# (1. ♜xf6? ♙e6) (mate in one)
- 5) 1. ... ♚xc2+ 2. ♖d3 ♚xc7 (capture an unprotected piece)
- 6) 1. ♜xa1 ♙xa1 2. ♚xa1 (defending: capturing)
- 7) 1. ♖xg1 (1. ♙xg1?; 1. ♜xg1?) (avoid stalemate)
- 8) 1. ♖h3 (1. ♖g1 ♚e1#) 1. ... ♚h5# (mate in one)
- 9) 1. ♜xc5+ (defend against mate by exchanging the chaser)
- 10) 1. ... ♙b4 (defending: interposing)
- 11) 1. ... ♖h8 (1. ... ♜xe7? 2. ♜xb8) (getting out of check: avoid loss of material)
- 12) 1. ... ♜c2 (defending: moving away)

## 55

- 1) ♜e7xh7xb7xb4xd2xg5 / ♜e7xg5xd2xb4xb7xh7
- 2) 1. ♜d6 (defending: moving away to a protected square)
- 3) 1. a7 (1. ♖a7 ♜b8#) 1. ... ♜xd5# (mate in one)
- 4) 1. ♜xg4! (1. ♜xd5? ♚a1+) (capture an unprotected piece)
- 5) 1. ♜c2! (1. ♖b1? ♜xf5+) (getting out of check: avoid loss of material)
- 6) 1. c5# (mate in one by a discovered check)
- 7) 1. ... e4 (defending: interposing)
- 8) 1. ♙xc6 (1. ♜xc6? ♚xb5) 1. ... ♚xd5 2. ♙xd7 (twofold attack: choose the correct capture)
- 9) 1. ♙f6 (defending: twofold protecting)
- 10) 1. ... ♙h5 (lifting the stalemate)
- 11) 1. ♙xe5 (1. ♚b8? ♜g7#) (defend against mate: moving away)
- 12) 1. ♜d4+! (1. ♖e2? ♙xb6) (getting out of check: avoid loss of material)

## 56

- 1) 1. ... ♜h2#! (1. ... ♚h2+? 2. ♜xh2; 1. ... ♚xd2?) (mate in one)
- 2) 1. ♚xa2! (1. ♙xf6? ♚e1#) (capture an unprotected piece)
- 3) 1. ... ♜a2#; 1. ... ♜a4#; 1. ... ♚b2# (3x mate in one)
- 4) 1. ♜xg4! (1. ♜xd5? ♚a1+) (capture an unprotected piece)
- 5) 1. ♜f1 (1. ♖h2 ♜g4#) (getting out of check: avoid mate)
- 6) 1. ♖h5 (1. ♖h3 ♜f1#) 1. ... ♜g6# (mate in one)
- 7) 1. g3 (1. ♜d3? ♜g4#) 1. ... ♜f1+ 2. ♖h4 (defend against mate: moving away)
- 8) ♙a6-c4-g8-h7+
- 9) 1. ♚xe8# (mate in one by a discovered check)
- 10) 1. ♜c1 (defending: protecting the knight and maintaining the protection of the bishop)

- 11) 1. ... d4 2. b7 d5 (defend against a passed pawn)  
 12) 1. c4 ♙xc4 2. ♜c3 (clearing a square and defending by moving away)

### 57

- 1) 1. ... ♖h8 (1. ... ♖f8 2. ♜f7#) (getting out of check: avoid mate)  
 2) 1. ♜b3 (defending: moving away and maintaining the protection)  
 3) 1. ♜xe7+! (1. ♜xe3?) (capture an unprotected piece)  
 4) ♜a7-a4-b4-b6+  
 5) 1. d7 (cashing in a passed pawn)  
 6) 1. ♙c6# (mate in one)  
 7) 1. ♙b5#! (1. ♜xe3?; 1. ♜d6+? ♖e8) (mate in one)  
 8) 1. ♜h7 (defend against mate: interposing thanks to twofold protection)  
 9) 1. g5 (defending: interposing)  
 10) 1. ... h6 2. ♜h7# (mate in one)  
 11) 1. ♜a1# (mate in one)  
 12) 1. ♜c2 (1. ♜xb6? ♜xc6) (defending: protecting)

### 58

- 1) 1. ♜xd4! (1. ♜xd5? ♜a1#) (capture an unprotected piece)  
 2) 1. ... ♖f5! (1. ... ♖g6 2. ♜h4#) (getting out of check: avoid mate)  
 3) ♜h2-a2-a1-e1+  
 4) 1. ♜xf8+ (1. ♙xf8? ♙xf3) 1. ... ♜xf8 2. ♙xf8 ♜xf8 (profitable exchange) 2V  
 5) 1. ♜xc1! (1. ♜xc1? b1♜+) (defend against a passed pawn)  
 6) ♜f6 ♙f5 ♜e8 ♖h7  
 7) 1. ♜g4# (mate in one by a discovered check)  
 8) 1. ♙a6 (1. ♙d7 ♜b7#; 1. ♖a6 ♜b6#) 1. ... ♜b8# (mate in one)  
 9) 1. ♖a3 (1. ♜b1? ♜f8#) (defend against mate: moving away)  
 10) 1. ♜xc6 ♜xc6 2. ♜xc6 (defending: moving away with a capture)  
 11) 1. ... ♜c2#! (1. ... ♜b4?; 1. ... ♙xd7?) (mate in one)  
 12) 1. ♖f2 (1. ♜xe1? ♜xe1#) (getting out of check avoid mate)

### 59

- 1) 1. ♙xb6 axb5 2. ♙xd8+ (capture an unprotected piece)  
 2) 1. ♜e4 (defend against mate: X-ray protection)  
 3) 1. ♜d4! (1. ♖f1? dxe2+ 2. ♖xe2; 1. ♜xb6? axb6) (getting out of check: avoid loss of material)  
 4) 1. ♙h6#; 1. ♜h6#; 1. ♜e5# (3x mate in one)  
 5) ♜h6xb6xb5xc4xf4xh4  
 6) 1. ♙xf5+ ♜xf5 2. ♜xf5 (twofold attack)  
 7) 1. ... f5 (defending: interposing)  
 8) 1. ♜b3 cxb3 2. ♜c3 (defend against a passed pawn)  
 9) 1. ... ♙c7 (defend against mate: moving away and maintaining the protection)  
 10) 1. ... ♜e8 2. ♜d1 (mate in one)  
 11) 1. c5 (cashing in a passed pawn: prevent ♙d6 first and only then advancing the f-pawn)  
 12) 1. ♜a8#! (1. ♜xh3?) (mate in one)

### 60

- 1) 1. e5 (defending: X-ray protection by line clearing)  
 2) 1. ... ♜xd5! (1. ... ♜b1+? 2. ♜xb1; 1. ... ♜xb7? 2. ♙xb7; 1. ... ♙xe4? 2. ♜xb5)  
 3) 1. ... ♖d7 (1. ... ♜xb8+? 2. axb8♜+) 2. ♜xc8+ ♖xc8 stalemate (draw: forcing stalemate)  
 4) 1. h8♜+ (1. h8♜?) (avoid stalemate)  
 5) 1. ... ♜xg5+! (1. ... ♜xg5? 2. ♜xc8+) (twofold attack)  
 6) 1. ♜xf6! (1. ♜xb4? ♙xe4+ 2. ♖g1 axb4) (profitable exchange)  
 7) 1. ♖g1 ♜h3#; 1. ♖e1 ♜d3#; 1. ♖e3 ♜d3# (mate in one)  
 8) 1. ♖c1 ♜c2#; 1. ♙f4 ♜h1#; 1. ♙g3 ♜b1# (mate in one)

- 9) 1. ... c5 (1. ... ♖xd4 2. ♕xd4+) (getting out of check: avoid mate)
- 10) 1. ... b4 2. b7 (2. c4 ♖d3 3. b7 ♖d8) 2. ... bxc3 (defend against a passed pawn)
- 11) 1. ... ♖c7 (1. ... a4? 2. ♕f3#) 2. ♕f3+ ♔d7 (defend against mate: interposing and preparing moving away)
- 12) 1. ♕a5! (1. ♕b6? ♖a8) 1. ... ♖xa5 2. d8♖+ (cashing in a passed pawn)

## 61

- 1) 1. ♔xe5+ ♔e7 2. ♖xb3 (capture an unprotected piece)
- 2) 1. ♖xg8 (1. ♖xd6? ♖xg2#) (capture an unprotected piece)
- 3) 1. ... ♔xf1+ (1. ... ♔xe4? 2. ♖f8#) (profitable exchange)
- 4) 1. ... b2 2. ♔f3 b1♖ (cashing in a passed pawn)
- 5) 1. ... ♖xc4! (1. ... ♖h4+? 2. ♖h3) (twofold attack with protecting)
- 6) 1. ... f1♖ (cashing in a passed pawn). After 1. ... fxg1♖+ 2. ♔xg1 Black is a pawn down.
- 7) 1. ♖xe5! (1. ♕xe5? ♕xe4 2. ♕xd6+ cxd6) 1. ... ♕xe5 2. ♕xe5 (twofold attack)
- 8) 1. ♖xd2! (1. ♕xc6? ♖xc6 2. ♖xd2 ♖c1+) (capture an unprotected piece)
- 9) Drawing
- 10) 1. d8♖+ ♔xd8 2. ♕xb5 (cashing in a passed pawn)
- 11) 1. ♖xc6! (1. ♖xc6? ♖xg2#; 1. ♕xf4 ♖xg2#) (defend against mate: X-ray protection with a capture thanks to a twofold attack)
- 12) 1. ... ♖d1+ 2. ♔c1 ♖xd7 (exploiting vulnerability: bad position of the white pieces)

## 62

- 1) 1. ♕xf8! (1. ♖xd8? ♖xd8; 1. ♖xb8? ♖xb8 2. ♕xb8 ♖xb8; 1. ♕xb8? ♖xc8 2. ♖xc8 ♖xc8) (profitable exchange)
- 2) 1. ♕xc6! (1. ♖xc6? ♖xb5) (twofold attack)
- 3) 1. ♕c4+ (exploiting vulnerability)
- 4) 1. ♕f3 (1. ♕xg2? stalemate) 1. ... ♕xf3 2. ♔xf3 (cashing in a passed pawn)
- 5) 1. ♖xc3 (1. ♖xc3 ♖xh4#) (twofold attack)
- 6) 1. ♖xa5 (1. ♖xa5? ♖g1+) (twofold attack; twofold protection of e1 is necessary)
- 7) 1. ♖xe7 (1. ♕xe7 ♕xe1) (twofold attack)
- 8) 1. ♔xd6! (1. ♖xd6? ♕xe4) 1. ... ♕xc6 2. ♖xc6 (twofold attack)
- 9) 1. ♖xc3 (1. ♖xc3? ♖xc3 2. ♖xc3 ♖e1#) (twofold attack)
- 10) 1. ♖xc6! (1. ♖xc6? ♕xc1!) 1. ... ♖xe4 2. ♖xc8+ (twofold attack)
- 11) 1. ... ♕xe2 (1. ... ♖xc7+? 2. ♔c3) (capture an unprotected piece)
- 12) 1. ... gxf6 (1. ... ♕xf5 2. ♖d8#) (capture an unprotected piece)

## 63

- 1) 1. ♕f6 (defending: interposing)
- 2) 1. ♔e2! (1. fxe5? ♖xd1; 1. ♔e4? ♖xd1) (getting out of check: avoid loss of material)
- 3) 1. ... ♔a7 (1. ... ♔b6? 2. ♖b7#) (defend against mate: interposing)
- 4) 1. ♖a1 (1. ♖c1? ♖xf6) (defend against mate: protecting and maintaining the protection)
- 5) 1. ♖b2! (1. ♕b2? ♖xf4) (defending: interposing and maintaining the protection of f4)
- 6) 1. ♕d2 (1. ♖h4? ♖e2#; 1. ♕d4 ♖h1#) (defend against mate: interposing - 2. ♔e2 is possible now after 2. ... ♖h1+)
- 7) 1. ... ♔a8! (1. ... ♔c8? 2. ♔a7#) (getting out of check: avoid mate)
- 8) 1. ... ♔d7! (1. ... ♔e7? 2. ♖g7#) 2. ♖g7+ ♔xc8 (getting out of check: avoid mate)
- 9) 1. ♖a3 (defending: protecting and maintaining the protection)
- 10) 1. ... ♔f7+ 2. ♔g6 ♖xg4+ (2. ... ♖xd3) (getting out of check: prevent loss of material)
- 11) 1. ♖g4 (1. c4? ♖h5#) (defend against mate: interposing even if this loses material)
- 12) 1. ♕f5! ♖xf1 2. ♕xc2 (defend against a passed pawn)

## 64

- 1) 1. ♖fa1 (defending: twofold protecting)
- 2) 1. ♕f3! (1. ♔f3? ♖xe2) (defending: interposing)

- 3) 1. ... ♖xa8 2. ♗xa8 ♗xa8 (defend against mate: capture the helper by a twofold attack thanks to X-ray protection)
- 4) 1. ... ♖b3 2. ♖f8+ ♖g8 (defend against mate; prepare interposing)
- 5) 1. ♗f3 (1. ♗c1? ♕c4; 1. ♗c8+? ♕e8 2. ♗xe8+ ♖f7) (defend against a passed pawn)
- 6) 1. ♗a1 ♜xa1 2. ♜d2 (defend against a passed pawn)
- 7) 1. ... ♜xf7 (1. ... ♕xd5 2. ♜g5#) (getting out of check: avoid mate)
- 8) 1. ♜h2! (1. ♜f2? ♖g1#) (getting out of check: avoid mate)
- 9) 1. ♖f3 (defend against mate: protecting and maintaining the protection)
- 10) 1. g6 (defend against mate: prepare interposing)
- 11) 1. ♜g3 ♖e1+ 2. ♖f1 (defend against mate: prepare interposing)
- 12) 1. ... ♜e6 2. fxe6 ♜g7 (defend against a passed pawn)