

Step 2 Thinking Ahead

The page number and title of the exercise are written as: **3: The pin: A** (or B, C ...).

Most pages in the workbook have a layout of 4 rows and 3 columns. We read (4-2) as: fourth row, second column.

3: The pin A

- 1) 1. ♖xf6 ♗g8 2. ♖f7
- 2) 1. ♕e2 ♗xc3 2. ♖d1
- 3) 1. ♕e3 ♕c5 2. ♖b5 (2. ♖c7 ♗d4)
- 4) 1. ♖h3 h5 2. ♖h4
- 5) 1. ♖b3 f5 2. ♖a3
- 6) 1. ... ♕f4 2. ♖xc3 ♖c7
- 7) 1. 0-0 ♗xc4 2. ♖a4 (2. ... d5 3. exd6)
- 8) 1. ♖xh7 ♖xf4 2. ♕g3
- 9) 1. ... g6 2. ♖xg6 ♖g7 (2. ... ♖g8 3. ♖e4 moving away and protecting the mate on g2 is Step 2. A Step 3 solution is 3. ♖xh7+ ♖xh7 4. ♖xf6+ with perpetual check)
- 10) 1. ♗e5 ♖g5 2. ♖c1! (2. ♖d2? ♗h3+)
- 11) 1. f6 ♕xf6 2. ♖f4! (2. ♖f1? ♖a1)
- 12) 1. dxe5 ♕xc5 2. ♖c1 (2. ♖c2? ♕xf2+ 3. ♗xf2 ♖xc2) 2. ... ♕xf2+ 3. ♗xf2

4: Winning material A

- 1) 1. ♖xh6 ♖xg6 2. ♖xg7 (2. ♖h8+ ♗f7) (twofold attack thanks to X-ray protection)
- 2) 1. ♗c3 ♖e5 2. f4 (2. ♗xd5? ♖a1+; 2. ♖xd5? ♖e1#) (eliminating the defence)
- 3) 1. ... ♖xc5 2. ♖d2 ♖xc4 (2. ... ♖xc4? 3. ♖d8+) (twofold attack)
- 4) 1. ♗xa7 ♖xc3 2. ♗xc8+ ♖xc8 3. ♖xc8 (twofold attack thanks to X-ray protection)
- 5) 1. ♕f4 ♕e5 2. ♖xg3 (2. ♕xg3? ♕xg3)
- 6) 1. c4+ bxc3+ 2. ♗xc3+ (double attack thanks to a discovered check)
- 7) 1. ♖d3 ♖c8 2. ♕xa6 (2. ♕xe6+ ♗xe6 3. ♖xa6 ♖c1+) 2. ... ♖c1+ 3. ♖f1 (capture an unprotected piece)
- 8) 1. ♖c3+ ♗g8 2. ♖xe1 dxe1 ♖ 3. ♖xe1 (twofold attack thanks to X-ray protection)
- 9) 1. ♕b3 ♖d7 2. ♖c8+ ♗g7 3. fxe5 (intermediate move)

Route planner

(4-2)	(4-3)
♖g7	♗d2
♖c6	♖h2
♖g5	♖g7
♕d7	♕e2
♕e8	♕f4
♗e5	♗c4

5: Winning material B

- 1) 1. ♖d8 ♗h7 2. ♖xe8 ♗xe8 3. ♖xa8 (intermediate move)
- 2) 1. ♕c4+ ♗d6 2. ♕xb3 ♗xc5 3. ♕xf7
- 3) 1. ♖d8+ ♗h7 2. ♖g8+ (double attack)
- 4) 1. ♖d5+ ♖f7 2. ♕xg7 (2. ♖xc6? ♕xh6) (double attack + intermediate move)
- 5) 1. ♗b4 ♗d2 2. ♕c4+ (intermediate move)
- 6) 1. ♖a7 ♖b8 2. ♖xb8+ (2. ♖xd7? ♖b1#) 2. ... ♖xb8 3. ♖xd7 (intermediate move + capture an unprotected piece)
- 7) 1. ... ♖c8 2. ♕xe5 f5 3. ♖xd4 ♗xe5 (intermediate move)
- 8) 1. ♗d6 ♕e7 2. ♗xc8 (2. ♖xc8? ♕xd6) (twofold attack)

- 9) 1. ♖d6 ♕xe5 2. ♖f7+ (2. ♖xc8? ♜f1#) (2. ♜xc8? ♕xd6) 2. ... ♔g8 (2. ... ♜xf7 3. ♜xc8+) 3. ♖xe5 (double attack)

Attack safely

(1-3)	(2-1)
♕f6	♖c6
♕f5	♕h6
♕h4	♕f2
♖e6	♕a4
♖b1	♖d1
♖e6	♖c3

6: Winning material C

1. d7 ♖xd7 2. ♕f5+ ♔h8 3. ♜xd7 (intermediate move)
1. ♜e6 ♜e7 2. ♜f5+ ♔g8 3. ♜xc8+ (intermediate move)
1. ♜d6 ♜axb7 2. ♜xb7 ♜xb7 3. ♜xb8 (twofold attack thanks to X-ray protection)
1. ♔a1 ♕f5 2. c8♖+ (double attack)
1. ♜d8+ ♔h7 2. ♜xc5 (♜h8# is illegal) 2. ... ♜xc5 3. ♜xa8; also 2. ♜h8+ ♜xh8 3. ♜xc5 wins. (luring away+material)
1. ... ♖c6 2. ♕f3 ♖xd4 3. ♕xd5 ♖e2+ (double attack)
1. ♖d6 ♜e1+ 2. ♔f2 (double attack)
1. ♜af1 ♜hf8 2. ♜xf8 ♜xh4 (2. ... ♜xf8 3. ♜xf8) 3. ♜1f7# (luring away+ material)
1. ♜xe4 ♜xa4 2. ♜c2 ♜d7 3. ♜c8+ (double attack)

Capture an unprotected piece

(4-2)	(4-3)
♜xg6	♜xb4
♜xh4	♜xf5
♜xd5	♜xg6
♜xc4	♜xc4
♜xd4	♜xf8
♜xe4	♜xe2

7: Eliminating the defence A

1. ♕d6 ♜e8 2. ♕b4 wins ♖a4 (chasing away+material)
1. f4 ♖c6 2. ♕xc6 ♕xc6 3. ♜xe7 wins ♕e7 (capturing+material)
1. ♕b5 ♕d7 2. e6 wins ♖c6 (luring away+material)
1. ♜xd8 ♜xd8 2. h5 wins ♕e7 (2. ... h6 3. ♖xe6) (chasing away+material)
1. ... b5 2. ♖e3 ♖h7 wins ♖e3 (chasing away+material)
1. ♜ch1 ♜h8 2. ♕xg6 ♜xh5 (2. ... ♔xg8 3. ♜xh8) 3. ♕xh5 (capturing/luring away+material)
1. ♜d4 ♖b6 2. ♜f4 ♜e6 (chasing away+material)
1. ♜xg7 ♖g6 2. ♖e5 (2. ... ♜c7 3. ♖xg6) ♖xe5 3. ♜xh8+ (luring away/capturing+material)
1. ... ♖b4 2. ♜fa1 ♖xc2 3. ♜xc2 ♕xb3 (capturing+material)
- 10) Drawing
1. ♜d7 ♜c5 2. ♕e3 ♖c7 (chasing away+material)
1. ♜e2 ♜xd4 2. ♜d1 ♖g4 (chasing away+material)

8: Eliminating the defence B

1. ... ♜c8+ 2. ♔b4 ♖c2+ wins ♜c3 (chasing away+material)
1. ♜c2 ♕f5 2. g4 wins ♖e4 (luring away+material)
1. a5 ♜b8 2. bxc6 wins ♕d5 (capturing+material)
1. ♜c7 ♜c8 2. g4 hxg4 3. hxg4 wins ♜e8 (chasing away+material)
1. ♜xc7 ♜c8 2. ♕b5 ♜xb5 (2. ... ♜d8 3. ♜xf7+) 3. ♜xc8 (chasing away+material)

- 6) 1. ♖b6+ ♕c7 2. ♖xd7 ♗xd7 3. ♗xf8 (luring away+material)
- 7) 1. ♖g5 ♗c7 2. ♖xf7 ♗xf7 3. ♗xd8 (chasing away+material)
- 8) 1. ♙xc6 ♖d4 2. ♖e8 wins ♜d4 (chasing away+material)
- 9) 1. h4 ♖f3 2. ♗c2 wins ♜f3 (chasing away+material)
- 10) 1. ♗e8+ ♗f8 2. ♙c4+ (2. ♙h7+? ♕xh7 3. ♗xf8 ♗d1+) 2. ... ♕h7 3. ♗xf8 ♗d1+ 4. ♙f1 (chasing away+material)
- 11) 1. ♗g2 ♗e5 (1. ... ♗h3? 2. ♗xg5+) (1. ... ♗f4? 2. ♗xf4) (1. ... f5? 2. ♗xg5+) 2. ♗xg5+ (luring away+material)
- 12) 1. c4+ ♕d4 2. ♗g4+ (2. ♗d6+? ♕c5) (chasing away+material)

9: Mate / Visualising A

- 1) 1. ♖b7 ♕b5 2. ♗c4#
 1. ♖b7 ♕xb7 2. ♗c8#
 1. ♖b7 ♙xb7 2. ♗a4#
 1. ♖b7 b5 2. ♗c6#
- 2) 1. ♗g1 ♕xh5 2. ♙e8#
 1. ♗g1 ♕h7 2. ♙c2#
 1. ♗g1 ♕f5 2. ♗f6#
 1. ♖h5 ♕f7 2. ♗e8#
- 3) 1. ♙g3 a5 2. ♗b5#
 1. ♙g3 ♙b7 2. ♗d6#
 1. ♙g3 ♕d7 2. ♗e8#
 1. ♙g3 ♕b6 2. ♗c7#
- 4) 1. ♗g2 ♕e5 2. ♗e4#
 1. ♗g2 ♕c3 2. ♙f6#
 1. ♗g2 ♕c5 2. ♙f2#
 1. ♗g2 ♕e3 2. ♗f2#
- 5) 1. ♗f3 d2 2. ♗a4#
 1. ♗f3 d4 2. ♗f7#
 1. ♗f3 ♕b3 2. ♗xd5#
 1. ♗f3 ♕d4 2. ♗f4#
- 6) 1. ♖c5 ♕e7 2. ♗h4#
 1. ♖c5 ♕g7 2. ♗h8#
 1. ♖c5 ♕xe5 2. ♗e6#
 1. ♖c5 ♕g5 2. ♖e4#

Mate? Yes or no

- | | |
|-------|-------|
| (4-2) | (4-3) |
| no | no |
| yes | yes |
| no | no |
| no | no |
| no | no |
| no | yes |

10: Mate / Visualising B

- 1) 1. ♗h7 g1 ♗ 2. ♗c2#
 1. ♗h7 g1 ♖ 2. ♗h2#
 1. ♗h7 f5 2. ♗a7#
 1. ♗h7 ♕g1 2. ♙c5#
- 2) 1. ♗d4 f6 2. ♗xc4#
 1. ♗d4 ♙d5 2. ♗b4#
 1. ♗d4 ♙b5 2. ♗a7#

1. ♖d4 ♗xd4 2. ♜e5#
- 3) 1. ♗c5 ♗c3 2. ♗a4#
 1. ♗c5 ♗c1 2. ♗d3#
 1. ♗c5 ♗a1 2. ♗d4#
 1. ♗c5 ♗a3 2. ♗c4#
- 4) 1. ♗c4 d5 2. ♜f7#
 1. ♗c4 ♗d5 2. ♜d6#
 1. ♗c4 ♗f5 2. ♜xd7#
 1. ♗c4 d6 2. ♜f7#
- 5) 1. ♗a3 ♗d6 2. ♖c4#
 1. ♗a3 ♗d8 2. ♖d4#
 1. ♗a3 ♗f6 2. ♖f4#
 1. ♗a3 ♗f8 2. ♖g4#
- 6) 1. ♖a4 ♗c4 2. ♜d3#
 1. ♖a4 d5 2. ♜f4#
 1. ♖a4 e5 2. ♜d3#
 1. ♖a4 ♗c5 2. bxc5

Mat in one

- | | |
|------------|-------|
| (4-2) | (4-3) |
| ♜f8# | ♜a7# |
| ♜g5# | ♜f8# |
| ♜a7# | ♜f7# |
| ♜d7# | ♜c8# |
| f8♜#, f8♖# | ♖f8# |
| ♜a7# | ♗f3# |

11: Double attack A

- 1) 1. dxc5 ♗xc5 (1. ... ♗d7!) 2. ♜a4+
- 2) 1. ♖d1 ♖xc2 2. ♜f5
- 3) 1. ♗xa6 ♖xa6 2. ♜b7
- 4) 1. ♜xa5 ♖c1 2. ♜d2+
- 5) 1. ♗ac3 ♜xa3 2. ♗b5 ♜a2 3. ♗xd4
- 6) 1. ♖ad1 ♜c6 2. ♗e7
- 7) 1. ♜f3 ♗e5 (1. ... d5!) 2. ♜f6
- 8) 1. ... b5 2. ♗d2 ♗c2
- 9) 1. ♗d4 ♖c3 2. ♗b5 a6 (2. ... ♖b8 3. ♗c7#) 3. ♗xc3
- 10) 1. d5 ♗xd5 2. ♜d4
- 11) Drawing
- 12) 1. ♗xh7 ♗xh7 2. ♜c2+ und 3. ♜xc6

12: Double attack B

- 1) 1. ... b5 2. h5 ♜g5+
- 2) 1. ♗c3 ♗e5 2. ♖xf5+ 1
- 3) 1. ... ♗f7 2. ♗f4 ♖c4
- 4) 1. ♖xf4 ♖xh4 2. ♖g4+
- 5) 1. ♗c5 ♖xe5 2. ♗d3
- 6) 1. ... ♗bd4 2. ♗c3 ♗e6
- 7) 1. ♖d2+ ♗e7 2. ♖e2+
- 8) 1. b5 ♖xa3 2. ♜b4
- 9) 1. ♜f4 ♗xb2 2. ♜b4
- 10) 1. ♗h2 ♖xc2 2. ♜a3

- 11) 1. ♖e3 ♗xg5 2. ♖c5
 12) 1. ♖xe4 ♗f5 2. ♗e7+

13: Double attack C

- 1) 1. ♖b8+ ♕f7 2. ♖f4+ (2. ♖a7+? ♗e7)
 2) 1. ♖d4 ♗f6 2. ♖b4+ (2. ♖d8+? ♖e8+)
 3) 1. ♗d2 ♗xd5 2. ♖g2+ (2. ♖e6+? ♗f7)
 4) 1. ♖b3 ♗xg2 2. ♖h3 (2. ♖xd5+? ♗c6)
 5) 1. h3 ♗e5 2. ♖g3 (2. ♖d6? ♗e8)
 6) 1. ♖g3 ♗xb2 2. ♖c3 (2. ♖e5? ♗a3)
 7) 1. ♖xe5 ♗xa3 2. ♖c5 (2. ♖d6? ♗c3) (2. ♖e7? ♗c3)
 8) 1. ♖xf7 ♖xf7 2. ♗fd6+ (2. ♗ed6+ ♕c7 3. ♗xf7 ♗xf5) 2... ♕c7 3. ♗xf7
 9) 1. ♖f3 ♗f7 2. ♖c3 (2. ♖f6? ♗e6)

Double attack

- | | |
|-------|-------|
| (4-2) | (4-3) |
| ♖e4+ | ♖h7+ |
| ♖c4+ | ♖e1+ |
| ♖c2+ | ♖g2+ |
| ♖e3+ | ♖g4+ |
| ♖h8+ | ♖a3+ |
| ♖b8+ | ♖g8+ |

14: Clever ways out of check A

- 1) 1. ♗xc5 ♗xe2+ 2. ♕xe2 (2. ♖xe2? ♖h1#)
 2) 1. ... ♖f3 2. ♗xh7+ ♕g8 (2. ... ♕e7 3. ♖c7#)
 3) 1. ♕f1 ♖d3+ 2. ♕g1 (2. ♕e1 ♗a5#) 2. ... ♖d1+ 3. ♗e1
 4) 1. ♗g1 ♗xe4+ 2. ♕f3 ♗xh4 3. ♗xc5
 5) Drawing
 6) 1. ♖a3 ♗h3+ (1. ... ♗f3+ 2. ♕h1) 2. ♕h1 (2. ♕f1 ♖b5+) 2. ... ♗xf2+ 3. ♕g1
 7) 1. ♕g2 (1. ♕g4 ♗g7+ 2. ♕f5 ♗f8+) 1. ... ♗g7+ 2. ♕h1 (2. ♕f2 ♗d3#) 2. ... ♗h8+ 3. ♗h2
 8) 1. ♗d3 ♗e5+ 2. ♗xe5+ (2. f4? ♖xe2)
 9) 1. ♖xd4 ♖a5+ 2. b4 ♖c7 3. ♖xg4
 10) 1. ♖xb1 ♖c1+ 2. ♗d1
 11) 1. c5 ♖d4+ 2. ♗e3
 12) 1. ... ♕a7 2. ♖d4+ c5 (2. ... ♖xd4? 3. ♗xd4+ c5 4. ♗xc5#)

15: Clever ways out of check B

- 1) 1. ♗xc5 ♖d5+ 2. e4
 2) 1. ... ♗xg4 2. ♗c6+ ♕c8 (2. ... ♕e8 3. ♗d8#)
 3) 1. ... fxe5 2. ♗c4+ ♗d5 3. ♗xd5+ ♕h7
 4) 1. ... ♗c6 2. ♗d8+ ♕f7
 5) 1. ... ♗xc3 2. ♖g3+ ♗g4+
 6) 1. ... ♗c8 2. ♖xc8+ ♗xc8 3. ♗xc8+ ♖f8
 7) 1. ... ♖a5 2. ♖c8+ ♖d8 (2. ... ♗xc8 3. ♗xc8+ ♖d8 4. ♗xd8#) 3. ♗xd8
 8) 1. ♗xb1 ♖xb1+ 2. ♖d1+ (2. ♗d1 ♗e1+)
 9) 1. ♗xd6+ cxd6+ 2. ♕d2 (2. ♕b1 e1♖+)
 10) 1. ... ♗xe5 2. ♖c4+ ♗e6 3. ♖c3
 11) 1. ♖xb6 ♖b8+ 2. ♗d6+
 12) 1. ♗ee2 ♗xg2+ 2. ♖xg2 ♗xg2+ 3. ♕xg2

16: Clever ways out of check C

- 1) 1. ... ♗c5 2. ♖b5+ c6

- 2) 1. ... ♖xg3 2. ♕e4+ ♜c6
- 3) 1. ♖h5 g6+ 2. ♗xg6 (2. ♖g4 h5#) (2. ♖xh6 ♗h4#) 2. ... fxg6+ 3. ♖xg6
- 4) 1. ... ♖h7 2. ♗c7+ ♖d7 (2. ... ♖h6 3. ♗h2+) (2. ... ♖g8 3. ♗g7#) 3. ♗xd7+ ♖h6
- 5) 1. ♕xc6 ♕c5+ 2. ♕d4 ♕xd4+ 3. ♖h1
- 6) 1. ... ♗xd4 2. ♗d8+ ♖e6 (2. ... ♖c6 3. ♗c7#) (2. ... ♖e5 3. ♗e7#)
- 7) 1. ♖d3 ♜d4+ 2. ♗xd4 (2. cxd4 ♗xd7) (2. ♖xd4 cxd4)
- 8) 1. e7 ♕b6+ 2. ♗xb6 (2. ♖g3 ♗g5#; 2. ♖g2 ♗xe2+; 2. ♖f1 ♗d1+)
- 9) 1. ♜d6 ♕h5+ 2. g4 ♕xg4+ 3. f3
- 10) 1. ... ♖xa2 2. ♗b3+ ♖c8 (2. ... ♖a7 3. ♗xa2+) (2. ... ♖c6 3. ♗b5+ ♖d6 4. ♗d5#)
- 11) 1. ♕b5 ♗e4+ 2. ♖a1 (2. ♖a2 ♗d5+) (2. ♖c1 ♗e3+)
- 12) 1. ... ♗f7 2. ♗a8+ ♖h7 (2. ... ♗f8? 3. ♗d5+) 3. ♗e4+ ♗g6+

17: Blind chess / Short games A

- | | | | |
|----|-------------|-------------|-------------|
| 2: | 3. ... ♜xe5 | 4. ♜xd5 | 3. ♕xg7 |
| 3: | 4. ... ♜xd4 | 4. ♜xe5 | 4. ... ♗xg5 |
| 4: | 4. ♕xb7 | 4. ♗xg4 | 4. ♗xg4 |
| 5: | 4. ... ♜xg5 | 4. dxe5 | 4. ♕xg7 |
| 6: | 4. ♗xg7 | 4. ... ♕xf4 | 4. ♜xb4 |
| 7: | 5. dxc5 | | |
| 8: | 5. exf6 | | |
| 9: | 5. dxc6 | | |

18: Tactics in the opening A

- 1) 1. ♗g3 g6 2. ♗c3
- 2) 1. ♗xb5+ c6 2. exf6
- 3) 1. ♕xc6 bxc6 2. ♗d4
- 4) 1. e6 ♗e7 2. ♗f7+ ♗xf7 3. exf7#
- 5) 1. ... b5 2. ♕xb5 ♗b6
- 6) 1. ... dxe4 2. ♜xe5 ♗a5+
- 7) 1. ♕b5+ ♖d8 2. ♖e1
- 8) 1. ♗e2 ♕xf3 2. ♜f6#
- 9) 1. ♗xb7 ♗c6 2. ♕b5
- 10) 1. b4 ♕b6 2. ♜xb6 ♕xc4 3. ♜xc4 (3. ♜xa8 ♗xa8 wins less material)
- 11) 1. ♕e6+ ♕xe6 (1. ... ♖b8 2. ♗f8+) (1. ... fxe6 2. ♗c7#) 2. ♗xg2
- 12) 1. ... ♜xd4 2. ♗xg7 ♜xc2+ 3. ♖e2 ♗d3# (3. ... ♜xa1 4. ♜xe4)

19: Tactics in the opening B

- 1) 1. ... d5 2. exd5 ♕c5
- 2) 1. ♜c3 ♜xd4 2. ♗a4+ ♜c6 (2. ... c6 3. ♗xd4) 3. ♗xg4
- 3) 1. ♜e5 ♜xe5 2. ♗xa7+ ♖c8 3. ♗a8#
- 4) 1. ♜c3 ♖xb2 2. 0-0-0
- 5) 1. ♜e5 ♗g5 2. ♜f3
- 6) 1. ♖c4 d6 2. e5
- 7) 1. ♗xf7+ ♜xf7 2. ♜f6+ gxf6 3. ♕xf7#
- 8) 1. ♜h4 g5 2. ♗h5+ ♖e7 3. ♜f5#
- 9) 1. ... c5 2. dxc6 ♕c5
- 10) 1. ♕g5 hxg5 2. hxg5 ♗xf2+ 3. ♗xf2 ♕xf2+ 4. ♖xf2 ♖xh1
- 11) 1. ♜xe5 ♗xe5 2. ♜d5
- 12) 1. ... cxd5 2. ♕xd5 (2. ♗xd5 ♜b6 3. ♗xd8 ♖xd8) 2. ... ♜f6

20: Mate / Visualising C

- 1) 1. ♗e2+ ♖c3 2. ♜e4#
1. ♗e2+ ♖a3 2. ♕c5#

1. ♖e2+ ♘a1 2. ♕d4#
1. ♖e2+ ♘c1 2. ♕e3#
- 2) 1. ♖f5 ♘h6 2. ♖xh7#
1. ♖f5 ♘h4 2. ♖h3#
1. ♖f5 ♗xg5 2. ♖xg5#
1. ♖f5 ♗f6 2. ♗f3#
- 3) 1. ♖d7 ♘c5 2. ♖d6#
1. ♖d7 ♘a3 2. ♕d6#
1. ♖d7 ♘xa5 2. ♖b5#
1. ♖d7 ♘c3 2. ♕e1#
- 4) 1. f3 ♗g1 2. f4#
1. f3 ♗d4 2. ♖b8#
1. f3 ♗f4 2. d4#
1. f3 f4 2. ♖c5#
- 5) 1. ♕g4 ♕xh6 2. ♕h5#
1. ♕g4 ♘h6 2. ♖f6#
1. ♕g4 ♘f7 2. ♖e6#
1. ♕g4 ♕a3 2. ♖g7#
- 6) 1. ♖f3 ♗g5 2. ♖f4#
1. ♖f3 f5 2. ♖e3#
1. ♖f3 fxe5 2. ♖d3#
1. ♖f3 ♘xf3 2. ♖e2#

Mate? Yes or no

- | | |
|-----------|-----------|
| (4-2) | (4-3) |
| yes | no (♖g7) |
| no (♕h6) | no (♘c8) |
| no (♗xe8) | no (♕b8) |
| no (♘g7) | yes |
| yes | no (♘xb6) |
| yes | yes |

21: Mate / Visualising D

- 1) 1. ♗d6 ♘xd6 2. ♖h2#
1. ♗d6 ♘b6 2. ♗d5#
1. ♗d6 ♘d8 2. ♖a5#
1. ♗d6 ♘b8 2. c7#
- 2) 1. ♖e8 ♘xg4 2. ♖e4#
1. ♖e8 hxg4 2. ♖h8#
1. ♖e8 ♕xg4 2. ♖e1#
1. ♖e8 ♕f1 2. ♖xh5
- 3) 1. c4 dxc3 2. ♖xc3#
1. c4 d3 2. ♖d5#
1. c4 ♗f4 2. ♖c7#
1. c4 ♘xc4 2. ♖b5#
- 4) 1. ♖g4 c4 2. ♖d4#
1. ♖g5 ♘e5 2. ♖xg5#
1. ♖g5 e5 2. c4#
1. ♖g5 ♗f3 2. ♖e4#
- 5) 1. ♖h2 ♘c3 2. ♖b2#
1. ♖h2 ♘c5 2. ♖d6#
1. ♖h2 ♘xe3 2. ♖f4#

1. ♖h2 a3 2. ♗e5#
- 6) Drawing

Mate in one

- | | |
|-------|-------|
| (4-2) | (4-3) |
| ♜b7# | f8♗# |
| ♗d6# | ♘c6# |
| ♗f8# | ♙c3# |
| ♘e6# | ♙e4# |
| g4# | ♗c5# |
| g7# | ♗b4# |

22: Discovered attack A

- 1) 1. ♙e3+ ♘d6 (1. ... ♘b5 2. c4#) 2. e5+
- 2) 1. b4 ♗d5 2. e4
- 3) 1. b4 ♘d7 2. d6 ♗xd6 3. ♙xb7
- 4) 1. e5 ♗xd4 2. ♘ce2
- 5) 1. ... ♗xb7 2. ♗e4 d5 3. cxd5 ♙xa3
- 6) 1. ♙b2 ♗a5 2. b4
- 7) 1. ♗d4 b3 2. e5+
- 8) 1. ♗xe6 ♗d7 2. ♗xh6 gxh6 3. ♗xd7
- 9) 1. f4 ♘c6 2. ♘e6
- 10) 1. ♘e3 ♙xc6 2. ♘d6
- 11) 1. cxd5 ♙xd5 2. e4 ♙xb3 (2... ♘b7 3. exd5) 3. ♙a6#
- 12) 1. ♙c2 ♘cxe4 2. ♘f5 ♗a7 3. ♙xe4

23: Discovered attack B

- 1) 1. ♙xe3 ♙c3 2. ♙b6+ (2. ♙g5+? ♙f6)
- 2) 1. ♗d1+ ♘e8 (1. ... ♘c7? 2. ♗d6#) 2. ♙c6+ (2. ♙xg6+ ♘xg6) 2... ♘xc6 3. ♗xh4
- 3) 1. ♗h8+ ♘e7 2. ♘c6+! (2. ♘f5+? ♙xf5 3. ♗d8+ ♘e6) 2... ♗xc6 3. ♗d8#
- 4) 1. ♙b3 ♗a3 2. ♙g8+ (2. ♙c2+? ♘xc2)
- 5) 1. ♙d5 ♗d8 2. ♙b7 (2. ♙xf7+? ♗xf7+)
- 6) 1. ♗xc8+ ♘xc8 2. ♙b5 (2. ♙g4? ♗c6; 2. ♙a6? ♗d7)
- 7) 1. ♗c3 ♙g4 2. ♘e5+ (2. ♘e7+? ♗xe7 3. ♗xc8 ♙xc8) 2. ... dxe5 3. ♗xc8
- 8) 1. ♘e7+ ♗xe7 2. ♙h7+ (2. ♙d5+? ♘e6)
- 9) 1. ♗f4 ♘g4 2. ♘c6+ (2. ♘g6+? ♘d8)
- 10) 1. ... ♙g7

2. ♗h2 ♘f3+	2. ♗b8 ♘c6+
2. ♗xe7 ♘c6+ / ♘f5+	2. ♗c7 ♘b5+ / ♘e6+
2. ♗e1 ♘c2+ / ♘f3+	2. ♗c5 ♘b3+ / ♘e6+
2. ♗g5 ♘f3+ / ♘e6+	2. ♗g3 ♘e2+ / ♘f5+
2. ♗e4 ♘e2+ 3. ♘a2 ♘c3+	
2. ♗d5 ♘b5+ 3. ♘b1 ♘c3+	

24: Defending against mate A

- 1) 1. e7 ♗f5 (1. ... ♗h8 2. e8♗) 2. ♗e5
- 2) 1. ... ♙xc6 2. ♗xc6 ♗b5
- 3) 1. ♘d4 ♗g3 2. e5
- 4) Drawing
- 5) Drawing
- 6) 1. ... ♗xd4 2. ♗h5 f5
- 7) 1. ♘f1 ♗f8 2. c3 (2. ♗e2? ♗h1#) (2. ♘e2? ♗xf2+)
- 8) 1. ♗a3 ♘h3 2. ♙e5+ ♘c8 3. ♗xh3

- 9) 1. ♖xc7 ♖xd4 2. ♙e2 ♖a1 3. ♙f1
- 10) 1. ♙xd6 ♗e4 2. ♙b4+ ♗xa4 3. ♙e1
- 11) 1. ... ♜f8 2. ♖g4 ♜g8 (2. ... g6? 3. ♖d4+) (2. ... ♜xf7? 3. ♖xc8+) (2. ... ♖xg4? 3. ♜xf8#)
- 12) 1. e5 ♜h6 2. ♗f1

25: Defending against mate B

- 1) 1. ♖xb1 ♜xg7 2. ♖b8 ♜h7+ 3. ♖h2+
- 2) 1. ♖xa2 (1. ♖f4+ ♗g6) (1. ♖h6+ ♗f5) 1. ... ♖h3 2. ♖a6+ ♗g7 3. ♖f1
- 3) 1. ♜xh6 ♜g3 2. ♜g6+ ♜xg6 3. ♗xg6
- 4) 1. ... ♗g8 2. ♖b7 ♖h8
- 5) 1. ♗a2 ♖d1 2. b3 (2. ♗f6 b3#) (2. ♖b1 ♖a4#)
- 6) 1. ... ♖xg4 2. ♖h6 ♙h7 (2. ... ♗e6? 3. ♖h8#) (2. ... ♖h5? 3. ♖g7#)
- 7) 1. ... ♜xc2 2. ♗f5 f6 (2... ♙xf5? 3. ♜e8#) 3. ♖e3
- 8) 1. ... ♖c7 2. ♗e8 ♖c3
- 9) 1. f4 ♜gxc2 2. ♗b1

Defending against mate

Example below the diagram: ♗h3 ♖g4 ♖d2 ♗f1 g5

The pawn move g4-g5 creates the escape square g4. Moving away the king doesn't work: ♗h4? ♖h6#

(4-2)	(4-3)
g4 (g3)	a3 (a4)
bxc3	b3
♙b7	♗b1
♖a7+	♖h1
♜xf2	♖h3
♗b1	g8♗+ (1. g8♖? ♖f6+ 2. ♖g7+ ♖xg7#)

26: Double attack D

- 1) 1. ♙h6+ ♙g7 (1. ... ♗g8 2. ♖a3) 2. ♖a3+
- 2) 1. d5 ♗a5 2. ♖c3
- 3) 1. ♜b3 ♜xb2 2. ♜gxb7+ ♗a8 3. ♜xb2
- 4) 1. ... ♜xd3 2. ♜d1 ♖d5+ (2. ... ♜xg3+? 3. hxg3 ♖xc2 4. ♜d8#)
- 5) 1. ♗e6 ♜b7 (1. ... ♗g8!) 2. ♗f8
- 6) 1. ♙xc5 ♙h3 (1. ... ♙h1 2. f4) 2. f3 ♖xc5+
- 7) 1. h4 ♜xe2 2. ♗f3 b2 3. ♜f8#
- 8) 1. ♙d4+ ♗a5 2. ♗c7 ♗b4 (2... ♜e8 3. ♙c3#) 3. ♗xb8
- 9) 1. ♜xd5 exd5 2. ♗f5
- 10) 1. ♗d6 ♜b6 2. ♜xf7 ♜b8 3. ♜xd7
- 11) 1. ... e1♖ 2. ♙xe1 ♜xe1
- 12) 1. ♗d6 ♜xe5 (1. ... ♜f1!) 2. ♜a7 (2. ♜b7? ♗c8 3. ♜c7+ ♗b8)

27: Double attack / Visualising A

- 1) 1. ... ♜xe3 2. ♗c4
 - 2. ... ♜b3 3. ♗a5+
 - 2. ... ♜f3 3. ♙e4+
 - 2. ... ♜e8 3. ♗d6+
- 2) 1. ♗e3+ ♗e6 2. ♗f8+
 - 1. ... ♗xf4 2. ♗g2+
 - 2. ... ♗d6 3. ♗f5+
 - 2. ... ♗e7 3. ♗g6+ (3. ♗f5+)
- 3) 1. e3+ ♗e4 2. ♜c8
 - 2. ... ♖xc8 3. ♗d6+
 - 2. ... ♖b1 3. ♗d2+

2. ... ♖b7 3. ♜d6+
- 4) 1. f5
 1. ... ♖g7 2. ♙a3#
 1. ... ♖g5 2. ♜h7+
 1. ... ♖h8 2. ♜d7+
 1. ... ♚e7 2. ♜g8+
 1. ... ♖f4 2. ♙a3+ ♚g7 3. ♜h5+
- 5) 1. ♜e2+ ♚e5 2. d4+
 2. ... ♚e6 3. ♜f4+
 2. ... ♚d5 3. ♜f4+
 2. ... ♚e4 3. ♜g3+
 2. ... ♚f5 3. ♜g3+
 1. ♜e2+ ♚c5 2. d4+ ♚d5 3. ♜f4+
- 6) 1. ♜e6+ ♚e8 2. e5
 2. ... ♖a8 3. ♜c7+
 2. ... ♖c8 3. ♜g7+
 2. ... ♖d7 3. ♙h5#
 2. ... ♚d7 3. ♜d4+
 2. ... ♖e4 3. ♙h5+ ♚d7 4. ♜c5+
- 7) 1. ♖a4 ♖g8 (1. ... ♖xa4 2. ♙e8+) 2. ♖a8
 2. ... ♖xa8 2. ♙f3+
 2. ... ♖b3 2. ♜d4+
 2. ... ♖c4 2. ♖c8+
 2. ... ♖d5 2. ♙f3
 2. ... ♖e6 2. ♖a6+
 2. ... ♖h7 3. ♙g6 ♖xg6 4. ♖a6+

28: Double attack / Visualising B

- 1) 1. ... ♜e5
 2. ♖h3 ♜d3+ 3. ♚f1 ♜f4+
 2. ♖a4 ♜d3+ 3. ♚f1 ♜c5+
 2. ♖d1 ♜d3+ 3. ♚f1 ♜b2+
 2. ♖e4 ♜d3+ 3. ♚d1 ♜f2+
- 2) 1. ... ♜b4
 2. ♖h7 ♜d5+ 3. ♚e4 ♜f6+
 2. ♖b3 ♜d5+ 3. ♚e4 ♜d2+
 2. ♖d1 ♜d5+ 3. ♚e4 ♜c3+
 2. ♖e2 ♜d5+ 3. ♚e4 ♜g3+
- 3) 1. h4+ ♚f5 2. ♚f2
 2. ... ♖g6 3. ♜e7+
 2. ... ♖d1 3. ♜e3+
 2. ... ♚e4 3. ♜xf6+
 2. ... ♚g6 3. ♜f4+
- 4) 1. ♖g7 b5 2. b4
 2. ... ♖e5 3. ♜g6+
 2. ... ♖e1 3. ♜g2+
 2. ... ♖f8 3. ♜g6+
 2. ... ♖d8 3. ♖h7+ ♚g5 4. ♜e6+
- 5) 1. ♜c3+ ♚a5 2. ♚g8
 2. ... ♖xb2 3. ♜c4+
 2. ... ♚xb6 3. ♜d5+
 2. ... ♖c5 3. ♜b3+
 2. ... ♖d6 3. ♜c4+

2. ... ♖f3 3. ♜b3+ ♝xb6 4. ♜d5+
- 6) 1. ... ♝g4
 2. ♖a4 ♗f4+ 3. ♜e3 ♜d5+
 2. ♖a5 ♗e8+ 3. ♜d4 ♜c6+
 2. ♖c3 ♗e8+ 3. ♜e3 ♜d5+
 2. ♖b3 ♗f4+ 3. ♜e3 ♗f3+
 2. ♖a1 ♗f4+ 3. ♜e3 ♜c2+
- 7) 1. e4
 1. ... ♖a8 2. ♗a1+
 1. ... ♖c6 2. ♜b3+
 1. ... ♖d8 2. ♜b7+
 1. ... ♖a2 2. ♗a1 ♖xa1 3. ♜b3+
 1. ... ♖e5 2. ♗a1+ ♖xa1 3. ♜b3+
 1. ... ♖e5 2. ♗a1+ ♜b4 3. ♜d3+
 1. ... ♖e5 2. ♗a1+ ♜b6 3. ♜d7+

29: Draws: Stalemate A

- 1) 1. cxd5 ♖xd5 2. ♖d3+ ♖xd3 stalemate
 2) 1. ♗xa2+ ♖xa2 2. ♗b2+ ♖xb2 stalemate
 3) 1. g7 ♗a8 2. g8♖ ♗xg8 stalemate
 4) 1. a5+ ♜a7 2. ♖c5+ ♖xc5 stalemate
 5) 1. ♖xf5 ♖xd6 2. ♖d7+ ♖xd7 stalemate
 6) 1. ♖b2+ ♖b4 2. c3 ♖xb2 stalemate
 7) 1. ♗xh1 gxh1♖ 2. ♖e5+ ♖xe5 stalemate
 8) 1. ♜e5 ♖g7+ 2. ♜f4 ♖xd4 stalemate
 9) 1. ♖xa2 ♖xb7 2. ♖g2+ ♜xg2 stalemate
 10) 1. ♗e8 ♗xe8+ 2. g8♜+ ♜g6 stalemate (2. ... ♗xg8+? 3. hxg8♖)
 11) 1. ♗h4 f2 (1. ... ♜g3 2. ♗xh2+ ♜xh2 3. ♜f2) 2. ♗h5 ♖xh5 stalemate
 12) 1. ♗g7+ ♜e6 2. ♗f7 (2. ♗g1? fxg1♜!) 2. ... ♜xf7 stalemate

30: Draws: Stalemate B

- 1) 1. h3 h5 2. ♗c7 ♖xc7 stalemate (2. ... ♖e8 3. ♜xe8 stalemate)
 2) 1. g8♖ ♜xc7 2. ♖c4+ (2. ♖a2 ♗xa2) (2. ♖g2+ ♗xg2) 2. ... ♗xc4 stalemate
 3) 1. ♖xf6+ ♜xf6 (1. ... ♜e8 2. ♖xg7) (1. ... ♜g8 2. ♖xe7) 2. e6+ ♜f8 stalemate
 4) 1. ♗xf3 g1♖ 2. ♗g3+ ♖xg3 stalemate
 5) 1. b8♖ ♖b1+ 2. ♜c6 ♖xb8 stalemate
 6) 1. ♗g3 ♜e6 (1. ... ♜e2 2. ♜xh3 f2 3. ♗xg2) 2. ♗xg2+ fxg2 stalemate
 7) 1. ♜d6 c1♖ 2. ♜f4+ ♖xf4 stalemate
 8) 1. ♗f5 (1. ♗hg5 ♖h6+ 2. ♗h7 ♖xg5 3. ♗f7+ ♜xf7) (1. ♗hh7 ♖e5 2. ♗h4 ♖xg7#) 1. ... ♖xf5
 2. ♗f7+ ♜xf7 stalemate
 9) 1. ♜b1 ♜xb3 2. e4+ ♜g5 stalemate (the e-pawn is pinned)

Mate (#), stalemate (=) or play (→)

(4-2)	(4-3)
stalemate	stalemate
♜h7	♜xb3
mate	mate
stalemate	stalemate
♜d7	♜a8
mate	mate

31: Winning material: yes or no? A

- 1) no 1. ♖a5 ♗b8 2. ♖xa4 ♖xd2

- 2) yes 1. ... ♖xc5 2. ♜fc1 ♖xf5 3. ♜xc7 ♖xb1+
- 3) no 1. ♙e3 ♙f7 2. ♖xf7? ♖d1+
- 4) yes 1. f4 ♖d8 2. ♙xc6 ♖d4+ 3. ♘g2
- 5) yes 1. ... ♜c8 2. ♚c7 ♜xc7 3. ♖d8+ ♚e8
- 6) no 1. ♚c4 ♖f5 2. ♙xd5? ♖b1+ 3. ♖f1 ♖xf1#
- 7) no 1. ... ♖xf5+ 2. ♜d3 ♖xf4? 3. ♜f3
- 8) no 1. ... ♜e8 2. ♚xd6? ♙d3+ 3. ♘g1 ♜e1+
- 9) yes 1. ... ♖f6 2. h5 ♖xf4 3. ♜xg6+ fxg6

32: Winning material: yes or no? B

- 1) no 1. ♙f4 ♚f6 2. ♙xd6? ♚e4
- 2) no 1. ♙b3 ♖e5 2. ♖xd5? (2. ♙xd5? ♖a1+) 2. ... ♖e1#
- 3) yes 1. ♙b6 ♜de8 2. ♜xd7 ♜xd7 3. ♜xd7 ♜e1+ 4. ♙g1
- 4) no 1. cxd4 ♚xd4 2. ♖xd4? ♜e1+ 3. ♜xe1 ♖xd4
- 5) no 1. ... ♙d7 2. ♜axb4? 2 (2. ♜bxb4? ♜xb4 3. ♜xb4 ♜xf3) 2. ... ♜xb4 3. ♜xb4 ♜xf3
- 6) yes 1. ♙xc5+ ♚xc5 2. ♜bxb4 (2. ♜axb4 ♜xb3)
- 7) yes 1. ... ♚xd5 2. ♚xd5 (2. ♙xd5? ♙xd5) 2. ... ♙xd5 3. ♙xd5+
- 8) no 1. ... cxd5 2. ♙xd5? ♙xd5 3. ♜xd5 ♜xe2 4. ♘f1 ♜e7
- 9) Drawing

33: Mate / Visualising E

- 1) 1. ♖e4 ♜a5 2. ♜xc6#
 1. ♖e4 ♜c5 2. ♜d7#
 1. ♖e4 ♘c5 2. ♜xc6#
 1. ♖e4 ♜e5 2. ♖xc6#
 1. ♖e4 ♜d5 2. ♖e7#
- 2) 1. ♖f4 fxg4 2. ♖xg4#
 1. ♖f4 gxh5 2. ♚f2#
 1. ♖f4 g5 2. ♖h2#
 1. ♖f4 ♘xh5 2. ♚f6#
 1. ♖f4 ♘h3 2. ♖h2#
- 3) 1. ♖g7 ♚e5 2. ♖g5#
 1. ♖g7 ♘xh4 2. ♖g4#
 1. ♖g7 ♜b8 2. ♖h7#
 1. ♖g7 ♜h6 2. ♖g4#
 1. ♖g7 ♚xh4 2. ♙g4#
- 4) 1. ♙e8 exf4 2. ♖e4#
 1. ♙e8 d5 2. ♖d7#
 1. ♙e8 ♘d5 2. ♖c4#
 1. ♙e8 ♘e7 2. ♖d7#
 1. ♙e8 ♘f5 2. ♙d7#
- 5) 1. ♖d5 ♜xa4 2. ♖b7#
 1. ♖d5 ♘xa4 2. ♖c6#
 1. ♖d5 ♜a6 2. ♜b4#
 1. ♖d5 ♜c7 2. ♜a5#
 1. ♖d5 ♜a8 2. ♖d7#
- 6) 1. ♙b1 ♘xb1 2. ♖c2#
 1. ♙b1 ♘a3 2. ♖a2#
 1. ♙b1 ♜a8 2. ♖xb4#
 1. ♙b1 b3 2. ♖c1#
 1. ♙b1 ♜a3 2. ♖c2#

Creating mate

(4-2)	(4-3)	
♖a1	♜f3	♙h3
♜a7 ♜c6	♜c2	♖b1
♜b5 ♜c7	♜e6	♜g8
♜b6 ♜c4	♜b6	♜a8
♙a6 ♙c7	♖b7	♙c6
♜c3 ♜c6	♖a6	♙d6

34: Mate / Visualising F

1. ♜c6 g6 2. ♖c4#
 1. ♜c6 ♜xc6 2. ♖f7#
 1. ♜c6 ♙d3 2. ♜c4#
 1. ♜c6 ♜e6 2. ♖f5#
 1. ♜c6 ♜xc6 2. ♖b5#
- 2) 1. ♜d5 e3 2. ♜e5
 1. ♜d5 cxd5 2. ♙d7#
 1. ♜d5 ♜f5 2. ♜d6#
 1. ♜d5 ♜xd5 2. ♙b3#
 1. ♜d5 ♜f7 2. ♖e5#
- 3) 1. ♖e7 ♙f2 2. ♖xd6#
 1. ♖e7 c5 2. ♜b5#
 1. ♖e7 ♙h2 2. ♖e3#
 1. ♖e7 d5 2. ♜e2#
 1. ♖e7 ♜c5 2. ♖a7#
- 4) 1. ♖a8 ♙d5 2. e4#
 1. ♖a8 ♙e5 2. ♖f3#
 1. ♖a8 ♜d4 2. ♖h8#
 1. ♖a8 ♙d4+ 2. e3#
 1. ♖a8 ♜d5 2. ♖e8#
- 5) 1. ♖e3 ♜a1 2. ♖d2#
 1. ♖e3 ♜b2 2. ♖c1#
 1. ♖e3 ♜c2 2. ♖g1#
 1. ♖e3 ♜xe2 2. ♖xe2#
 1. ♖e3 ♜c2 2. ♙b3#
- 6) 1. e4 dxe3 2. d4#
 1. e4 ♜f6 2. ♙xd4#
 1. e4 ♜b6 2. ♙b8#
 1. e4 ♜c5 2. ♜d5#
 1. e4 d3 2. ♖f5#

How many times mate? (? x #)

(4-2)	(4-3)
1x (♖g7)	3x (♖g2, ♖h4, ♖h5)
1x (♖g4)	2x (♖c8, ♖e7)
2x (♖c1, ♖e2)	2x (♖a1, ♖a7)
0x	2x (♖f8, ♖h7)
3x (♖a7, ♖d8, ♖h8)	2x (♜g6, ♖g8)
2x (♖a5, ♖b3)	1x (♖b7)

35: Test: Mix A

- 1) 1. ♖xc6 ♜ac8 2. ♖h6 (defending by moving away and protecting)
- 2) 1. ♖xd6 ♜g4 2. ♖f8+ ♜h7 3. ♖xg7# (mate in two)

- 3) 1. ... b5 2. ♖d2 ♕d4 (pin)
- 4) 1. ♖xf6+ ♖h6 (1. ... ♖g8 2. ♕c4+) 2. ♗d4 ♖g5 3. ♗h4+ (pinning and X-ray protection)
- 5) 1. ♖c3+ ♖f6 2. ♕f8+ (2. ♕d4 ♖a4+) (eliminating the defence: luring away+material)
- 6) 1. ♖h5 fxe4 2. ♖g4+ (eliminating the defence: capturing+material)
- 7) 1. ♖c5 ♖dc6 2. ♕xf7+ ♖xf7 3. ♖xc3 (discovered attack)
- 8) 1. ... ♖xd4 2. ♖f6 h6 (2. ... ♖g4 3. ♖g5#) (defending against mate by protecting)
- 9) 1. c4 ♕e6 2. ♗a1 (pin)
- 10) 1. a3 ♖c6 2. ♗xc6 bxc6 3. ♖xa5 (eliminating the defence: capturing+material)
- 11) 1. ... ♕c4 2. ♗xe5 ♖xf1+ 3. ♗xf1 ♗xf1# (mate in two thanks to X-ray protection)
- 12) 1. ... c5 2. dxc5 (2. ♖xb5 ♕xe4 3. ♖xe4 ♗xe4) 2. ... ♕xc3 (discovered attack)

36: Test: Mix B

- 1) Drawing
- 2) 1. ♕xf6 ♖b6+ 2. ♕d4 (getting out of check: winning material)
- 3) 1. ♕c5+ ♖xa6 2. c4 ♖a5 3. ♗a7# (threaten mate: bringing in the chaser)
- 4) 1. ♗dxh4 ♕g6 2. ♗xh7+ ♕xh7 3. ♗xh7# (mate in two thanks to X-ray protection)
- 5) 1. ♗c5 ♖f6 2. ♗g5+ (eliminating the defence: chasing away+material)
- 6) 1. ♖xg5 f6 (1. ... ♖xb7 2. ♖xd8+) 2. ♖a5 (defending by counter-attack)
- 7) 1. g7 d4+ 2. ♖b2 (2. ♖xd4? ♕b3) (2. ♖c4? ♖a4) (passed pawn)
- 8) 1. ♖c5+ ♖c6 2. ♖f8 (double attack: queen)
- 9) 1. ... a4 2. ♖c1 ♖h6 (double attack with two pieces)
- 10) 1. ♕c1 g5 2. ♖a2 (pin)
- 11) 1. ... ♖e5 2. ♖f6+ ♖g8 (getting out of check: preventing mate)
- 12) 1. ♖xd7+ ♖xd7 2. ♗xd7 ♗g2 3. ♗h7 (defending against mate)

37: Intermediate move A

- 1) 1. ♖f2 d5 2. ♕b5+
- 2) 1. ♖xf3+ ♖g4 2. ♖h2+ (2. ♖e5+ ♖f5)
- 3) 1. ♕d3 ♕a3 2. ♖c7
- 4) 1. e5 ♕xa4 2. ♗a1 ♖e4 3. ♗xa4 ♖xd2 4. ♖xd2 ♗c1+ 5. ♖f1
- 5) 1. ♕c3 ♕e5 2. d4
- 6) 1. ♗c1 ♖d5 2. ♖a3
- 7) 1. ♗ab1 ♗c8 2. ♖h5+
- 8) 1. ... d4 2. g6? ♕d5
- 9) 1. ♗ab1 ♕e3 2. ♖c2

Attack all squares

(4-2)

♖d2

♖h2

♖e8

♖g6

♖d1

Square ? is attacked 3 times

(4-3)

g5

c4

h5

e5

b7

38: Intermediate move B

- 1) 1. a5 ♖e5 2. ♖g6+ (2. ♖d3+ ♖d4)
- 2) 1. ♖b6 ♕b4 2. ♗f2+ (2. ♗d7+ ♖e6)
- 3) 1. fxe5 ♖c5 2. ♖g4
- 4) 1. ♖e6 ♗xa2 2. ♗f7
- 5) 1. ... ♗xc1 2. ♗xb7 ♖c6
- 6) 1. ♖c4 exd3 2. ♖xe7+ ♖xe7 3. ♖xa5
- 7) 1. ♖c5 ♗d8 2. g3
- 8) 1. ♖e2 ♖xf2 2. ♖d4

- 9) 1. ... d4 2. ♖e4 ♗d5
- 10) 1. ♗c3 ♖c8 2. ♗b3+ ♖h8 3. bxa6
- 11) 1. ♗e4 ♗c6 2. ♗g4
- 12) 1. c4 ♗xd4? (1. ... ♗xd4! 2. cxb5) 2. ♗e8+ (2. cxd5? ♗xe2+) 2. ... ♖xe8 3. ♖xe8+ ♖g7 4. cxd5

39: Avoiding stalemate A

- 1) 1. ♖e6 a2 2. ♗a1
- 2) 1. h6 ♖xh6 2. g8 ♖
- 3) 1. ... ♖xf1 2. ♖xf1 ♖g3
- 4) 1. ♖xb8 b1 ♗ 2. ♖a7+ ♖xa7 3. ♖xb1
- 5) 1. ♖g6 ♖xb6 2. ♖f6 ♖a6 3. h6
- 6) 1. ♗c2 d5 2. cxd6 ♗xc2
- 7) 1. e7 ♗g6 (1. ... g6+ 2. ♖e4) 2. e8 ♖
- 8) 1. ♖g1 (1. ♖f1? ♖e1+ 2. ♖f2 ♖f1+) 1. ... ♖e1+ 2. ♗f1 (2. ♖f2? ♖f1+)
- 9) 1. ... ♗xc8 2. c4+ ♗xc4 (2. ... ♖xc4 3. ♗xc8+) 3. ♗d6#
- 10) 1. ... ♗c6 2. ♗c5+ ♖b5 3. ♗e4
- 11) 1. ... ♖xe1 2. ♖xf3 ♖h1+ 3. ♖xh1 gxf3
- 12) 1. ... ♖e8 2. ♗d8+ (2. ♗c6+ ♗d7) 2. ... ♖f7 3. ♗g5+

40: Capturing: yes or no (♗ or ♘) A

- 1) 1. ♗c4 ♗xe3 2. ♗xe3 ♖c1+ 3. ♖d1 (♗)
- 2) 1. ♖ac1 ♗e2+ 2. ♗xe2 ♗f4# (♘)
- 3) 1. ♗e4 d5 2. ♖xd5 ♗xd1+ 3. ♖xd1 ♖xd1# (♘)
- 4) 1. cxd5 ♗xd5 2. ♖xd5 (2. ♖xf6 ♗xf6+ 3. ♖f5 ♖c7) 2. ... ♖xf4 3. ♗xd6+ (♗)
- 5) 1. f4 ♗xe4 2. ♗xe4 (2. ♗f3!) 2. ... ♗b7 (♘)
- 6) 1. ♗d2 ♗xf4 2. ♗xf4 ♗g5 3. ♖xg5 (♗)
- 7) 1. ... ♗xe5 2. ♖xe5 ♖d1+ 3. ♗xd1 ♖xd1+ 4. ♖e1 (♗)
- 8) 1. cxd5 exd5 2. ♗xd5 cxd5 3. ♖b5# (♘)
- 9) Drawing

41: Capturing: yes or no (♗ or ♘) B

- 1) 1. ... ♗xc2 2. ♗xc2! ♗e3+ (2. ... ♗xf4+ 3. ♗e4) 3. ♗e4 (♗)
- 2) 1. ♗xd6 ♖xd6? (1. ... ♗f6!) 2. ♗h6+ ♖xh6 3. ♖xh6# (♘)
- 3) 1. ♗xh4 ♖xh4! 2. f4+ gxf3+ (♗)
- 4) 1. ♖b8 ♗xa4? (1. ... ♗c4!) 2. ♖b3 (♘)
- 5) 1. ♖xc5 ♗xc5 2. ♗xc5! (2. ♗xa6 ♗xd2 3. ♗xb7 ♗xf2+) 2. ... ♗xd2 3. ♗c8+ (♗)
- 6) 1. bxa5 ♗xa5 2. ♗xf6+! (2. ♗xb7? ♗a1+; (2. ♗xe5? ♗xe5) 2. ... ♗xf6 3. ♗xf6# (♗)
- 7) 1. ... ♗xc5 2. ♖xc5! ♗xa3 3. ♖dc8 (♗)
- 8) 1. ... ♗xc5 2. ♖xc5? ♗e3 (♘)
- 9) 1. ... ♗xc5 2. ♖xc5! ♗e3 3. ♖c8+ (♗)

42: Threaten mate A

- 1) 1. ♗e5+ ♗e6 2. ♗d6 (2. ♗c7? ♗d7) → 3. ♗e7#
- 2) 1. ♖f1+ ♖e5 2. ♖hf6 → 3. ♖1f5#
- 3) 1. c6 a2 2. b7 → 3. b8 ♗#
- 4) 1. ♗d3 b3 2. ♗h7 → 3. ♖f5#
- 5) 1. ♗f7+ ♖h6 2. ♗f2 → 3. ♗xg4#
- 6) 1. ♗b6+ axb6 (1. ... ♖b8 2. ♗xe6#) 2. ♗a8 → 3. ♗xb6#
- 7) 1. ♗xf3+ ♖xh6 2. ♗g4 (2. ... ♗xc4 3. ♗f5#) → 3. ♗xf7# → 3. ♗f5#
- 8) 1. ♗xh6+ ♖g8 2. ♗d7 (2. ♗xe4? ♗b7) → 3. ♗xf6#
- 9) 1. ♖xg7 g1 ♗ 2. ♖b7 → 3. ♖b8#

Mate / Visualising

(4-2)

♔c2 ♖b7 ♕a3 ♜a5

1. b8♚ ♕a2 2. ♚b2#; 1. ... ♕a4 2. ♚b3# ; 1. ... a4 2. ♚b2#

♔g6 ♚b2 ♕h8 ♜h6

1. ♚b7 ♕f8 2. ♚f7#; 1. ... ♕h8 2. ♚h7# ; 1. ... ♜g2 2. ♚g7#

♔c6 ♚h6 ♕a6 ♜b2

1. ♚e3 ♕a5 2. ♚a3#; 1. ... b1♞ 2. ♚b6# ; 1. ... b1♚ 2. ♚a3s#

43: Threaten mate B

1. ♚xg6+ ♕h3 2. ♕g1 → 3. ♜f1#
1. ♜xc4 a2 2. ♕g2 → 3. ♜e2# / 3. ♚xg6# (2. ... f4 3. ♜e6#)
1. f4+ ♕h5 2. c3 → 3. ♜d1#
1. ♜xd7 a2 2. ♜f8 → 3. ♚h7#
1. ♜xd8 f2 2. ♚e8 → 3. ♜e6#
1. d6 c2 2. ♜e8 → 3. ♚g6#
1. ♚h4+ ♚h7 2. ♜f6 → 3. ♚g8#
1. ♚xh7 e2 2. ♕b7 → 3. ♚d7#
1. ♚xc7 h2 2. ♚g7 → 3. ♜d7#

Mate / Visualising

(4-2)

♕a5 ♚e5 ♜g1 ♕b7

1. ♜h2 ♕a8 2. ♚b8#; 1. ... ♕c8 2. ♚c7# ; 1. ... ♕c6 2. ♚b5#

♕d1 ♚h1 ♜g8 ♕b2

1. ♚d5 ♕b1 2. ♚a2#; 1. ... ♕a3 2. ♚b3# ; 1. ... ♕c3 2. ♚d2#

♕f6 ♚f7 ♖g2 ♕g4

1. ♚b3 ♕h5 2. ♚h3#; 1. ... ♕f4 2. ♚f3# ; 1. ... ♕h4 2. ♚h3#

44: Passed pawn A

1. c6 ♜e4 2. c5
1. b8♚+ ♜xb8+ 2. ♕b7
1. ... d2 2. ♚xd6 ♚e1+ (2. ... ♚d7 3. ♚b8+)
- Drawing
1. ... c2 2. ♚a3 (2. ♕d2 ♜b3+) 2. ... ♜b3
1. c7 ♜e5 2. ♜e7+ (2. ♜d6 ♜xd6+ 3. ♕a4 ♜xc7)
1. ♜c5 ♚e1 2. ♜e3
1. c7 ♚c2 2. ♚a8 ♚xc7 3. ♚h8#
1. ... ♚g1 2. ♚ac5 ♚e1
1. ... b3 2. ♕c3 ♜b4+
1. ... ♕g6 2. ♜xd6 e4
1. ♕h4 (1. ♕h6? ♚g6+) 1. ... ♚g1 2. ♜h5

45: Passed pawn B

1. h6+ ♕g6 2. h7 (2. ♕f3? ♕g5) 2. ... ♕xh7 3. ♚xf6
1. d7+ ♕e7 2. ♚c7 ♚d2 3. d8♚+
1. h7 a2 2. h8♚ (2. hxg8♚ a1♚) 2. ... a1♚ 3. ♚d4#
1. c7 ♚c1 2. ♚f5+ (2. c8♚? ♚h1#) 2. ... ♕h8 (2. ... g6 3. ♚d7+) 3. c8♚+
1. g7 ♚xa7 2. ♕e8 ♚a8+ 3. ♜d8

- 6) 1. ♖f8+ ♕h7 2. ♖f7 ♕g8 3. ♖xg7+ ♕xg7 4. e8♞
- 7) 1. ♙c6 ♖e4 2. ♙d5+ (2. ♙xe4? ♕f7) 2. ... ♕h8 3. ♙xe4
- 8) 1. e7 ♙f3 2. e4 ♙xe4 3. e8♞
- 9) 1. ... ♙xc7 2. ♕c3 ♙f4 3. ♗g4 e2
- 10) 1. ♙c4 ♖e1 2. c7 ♖e8 3. ♙a6
- 11) 1. f7 ♙g8 2. f8 ♙ ♙e6 3. ♗e7 ♙b3 4. ♙g7#
- 12) 1. c6 ♙b7 (1. ... e1♞ 2. c7#; 1. ... ♙a6 2. c7+ ♕c8 3. ♙e6+ ♕b7 4. c8♞+) 2. c7+ ♕a8 3. c8♞#

46: Defending against a passed pawn A

- 1) 1. ♕d7 a2 2. ♕e7 ♕f5 (2. ... a1♞ 3. ♙f6+ ♕f5 4. ♙xa1 ♕g4) 3. ♙f6
- 2) 1. ♕e3 b2 2. ♖e6+ (2. ♖b4 axb4 3. ♙e4 bxa3 4. ♙b1 ♕e5) 2. ... ♕xe6 3. ♙e4
- 3) 1. ♕xd5 b2 2. g3+ ♕xg3 3. ♙f5 ♕xh4
- 4) 1. ♖xg4 f2 2. ♖g5 f1♞ 3. ♖f5+ ♞xf5+ 4. ♕xf5
- 5) 1. ♙c6 e5 2. ♙h1 (2. ♙g2 ♕f2 3. ♙h1 g2 4. ♙xg2 ♕xg2 5. ♕d3 ♕f3)
- 6) 1. ♖xf3 e2 2. ♖e3 ♗xe3+ 3. ♕d2
- 7) 1. ♙b3 a2 2. ♙g5 met mate or anders 3. ♙xe5 (2. ♙g7+ lifts the stalemate, but after 2. ... ♕xg7 3. ♙xa2 ♕g6 4. ♕xe5 ♕g5 followed by h7-h5-h4 the last white pawn disappears)
- 8) 1. ♖xb5 a2 2. ♖b1 (2. ♖a5 ♙b4+ 3. ♕c2 ♙xa5 4. ♕b2 ♙b6 5. ♕xa2 ♙xf2) 2. ... axb1♞ 3. ♙xb1
- 9) 1. ♖e1 ♖d1 2. ♕h2 ♖xe1 (2. ... ♖d2 3. ♕g1)
- 10) 1. ♙b1 h2 2. ♗f2 (2. ♗g3 ♙xg3+ 3. ♕d7 h1♞) 2. ... ♙xf2 3. ♙e4
- 11) 1. g5 a3 2. ♙h8 a2 3. g6+ ♕xg6 (3. ... ♕g8 4. f7+) 4. f7 ♕xf7
- 12) 1. c4+ ♕a5 2. ♙f6 e1♞ 3. ♙c3+ ♞xc3+ 4. ♕xc3

47: Defending against a passed pawn B

- 1) 1. ♗d5 ♕d3 2. ♗e3 ♕xe3 3. ♙h6+
- 2) 1. ♖xa3 b2 2. ♗d1 b1♞ (2. ... b1♗ 3. ♖a2+) 3. ♖c3#
- 3) 1. ♖d3 ♙b4 2. ♖d4 (2. ♖d1? ♙a3)
- 4) 1. ♗c6 e2 2. ♗d4 e1♞ (2. ... e1♗ 3. b6) 3. ♗f3+
- 5) 1. ♗d4 g2 2. ♗e2 (2. ♗f3 ♗e5+ 3. ♗xe5 g1♞)
- 6) 1. ♙xd7 d2 2. b4+ ♕b6 3. ♙a4
- 7) 1. ♖xc5 ♞d1 2. ♞g1 (2. ♕g1 ♞d4+ 3. ♞f2 ♞d1+)
- 8) 1. ♖g4 ♗f3 2. ♖g5
- 9) 1. ♗xb7 ♙xb7 2. c6 ♙a8 (2. ... ♙a6 3. d6 ♙b5 4. d7)
- 10) 1. ♖xe5+ ♕f2 2. ♖e1
- 11) 1. ♖b8+ ♕a7 2. ♖e8
- 12) 1. g7+ ♕f7 2. ♖e7+ (forced, d1♞+ is with check) 2. ... ♕xf6 3. g8♗#

48: Mate in three A

- 1) 1. ... ♞g3+ 2. ♙xg3 ♖g1+ 3. ♕h2 hxg3
- 2) 1. ♗e7+ ♕h7 2. ♞g6+ fxg6 3. hxg6#
- 3) 1. ♖g8+ ♕f7 2. ♞e7+ ♕xg8 3. ♞f8#
- 4) 1. b8♞+ ♙xb8 2. ♗b7+ ♕c8 3. ♗e7#
- 5) 1. ... ♞d2+ 2. ♙e3 ♞d6+ 3. ♕g5 ♞xg3#
- 6) 1. ... ♞c5+ 2. b4 ♞a7+ 3. ♕b3 ♞a4#
- 7) 1. ♖xf8+ (1. ♖h8+ ♕xh8 2. ♞xf7 ♙e4+ 3. ♕a1 ♖g1+) 1. ... ♕xf8 2. ♖h8+ ♕g7 3. ♞h6#
- 8) Drawing GM Jan Smeets
- 9) Drawing GM Jan Smeets

Trapping

- | | |
|-------|-------|
| (4-2) | (4-3) |
| ♗e4 | ♖e6 |
| ♙a4 | ♖a7 |
| ♙d2 | ♖b7 |

♖d5	♜a2
♜c6	♞e4
♖b4	♜g5

49: Mate in three B

1. ♖h6+ ♔e5 2. f4+ ♔d4 3. ♖f6#
1. ♖h7+ ♔f6 2. ♙b2+ ♔g5 3. h4#
1. ... ♖f1+ 2. ♔h2 ♖xh3+ 3. ♔g1 ♜d1#
1. ♜g1+ ♔f8 2. ♖h6+ (2. ♖h8+ ♙g8+ 3. ♔b1 ♙d6 (3. ... ♜c1+)) 2. ... ♔f7 3. ♖g7#
1. ♖g6+ ♔h4 2. ♖h6+ ♔g4 3. h3#
1. ♖h4+ ♔f3 2. ♖h5+ g4 3. ♖xg4#
1. ... ♖h6+ 2. ♔f6 ♖g7+ 3. ♔g5 ♖e7#
1. ♜g3+ ♔f5 2. ♖g5+ ♔e4 3. ♜g4#
1. ♞f6+ ♙xf6 2. ♜g7+ ♔f8 3. h8♖#

Where is the king mate?

(4-2)	(4-3)
♔d8	♔c8
♔a4	♔f8
♔d1	♔h8
♔e1	♔e8
♔e8	♔a5
♔h5	♔f6

50: Route planner: Mate A

1. ♖a8 ♔b5 2. ♜xb3#
1. ♖e7 ♔xg3 2. ♖h4#
1. ♜a3 ♔b1 2. ♔d2#
1. ♖h3 ♔e4 2. ♜c4#
1. ♖g3 ♔e7 2. ♖d6#
1. ♙b1 ♔xb1 2. ♖h1#
1. f8♞ ♔h5 2. ♜xh3#
1. ♖h8 ♔c3 2. ♜e2#
1. ♞b4 ♔a5 2. ♖c5#
1. f3 ♔e6 2. ♞f4#
1. ♜b1+ ♔c2 2. ♙e4#
1. ♙a2 ♔b4 2. ♜c4#

51: Route planner: Mate B

1. ♔c2 ♔c4 2. ♜b6#
1. ♜d4 ♔g5 2. ♖g6#
1. c8♞ ♔a8 2. ♙c6#
1. ♞f5 d5 2. ♖e2#
1. ♔b2 ♔a4 2. ♖a3#
1. ♜g7 ♔h2 2. ♜h7#
1. ♙c5 ♔d5 2. ♖f5#
1. f4 ♔d4 2. ♖b6#
1. ♔g2 ♔e1 2. ♖f1#
1. ♖e2 ♔h3 2. ♖f3#
1. ♔f4 ♔e1 2. ♖e2#
1. c8♞ ♔xd8 2. ♜f8#

52: Preventing loss of material A

- 1) 1. ... ♖xf5 2. f3 ♜g3 (2. ... ♖c5+? 3. ♕e3)
- 2) 1. ... ♜xh6 2. ♜g6 ♕e3 (2. ... ♜f5? 3. ♜e6#)
- 3) 1. ... ♜e6 2. ♕h3 ♕g1
- 4) 1. ... ♜xb3 2. ♕c4 ♜c5
- 5) 1. f3 f5 2. ♕d6+ (2. ♜d6 f4+)
- 6) 1. f3 f5 2. ♜g5 (2. ♜d6 f4+ 3. ♖c1 fxg3)
- 7) 1. ♜hd1 b6 2. ♕e7
- 8) 1. ♖c5 ♕f8 2. ♕xc6
- 9) 1. ♜xd5 ♖h4
- 10) Drawing
- 11) 1. ♜a3 c4 2. bxc4
- 12) 1. ♜hg3 f5 2. ♖f2

53: Preventing loss of material B

- 1) 1. ♜d5 ♖e6 2. ♜d3
- 2) 1. ♜d1 b5 2. ♕d7
- 3) 1. ♜e5 ♕d6 (1. ... ♕d8 2. ♜xd3 ♕xc7+ 3. e5)
- 4) 1. ... ♜b3 2. ♜h8+ ♖xh8 (2. ... ♖xh8 3. ♖xf6+) 3. ♖xh8+ ♖xh8
- 5) 1. ... ♜a8 2. ♕a6 ♕b7 3. ♜xa8 (3. ♕xb7 ♜xe8) 3. ... ♕xa8
- 6) 1. ... ♕a5 2. ♜b3 d5
- 7) 1. ♖g5 ♜f1 2. ♜dd1
- 8) 1. ♕xb2 ♕xa4 2. ♜d4 ♖xa5 (2. ... ♕d1 3. ♖b6) 3. ♕c3#
- 9) 1. ♜h3 (1. g4? ♜h4) 1. ... ♜h4 2. ♖d2 ♜xg2 (2. ... ♜f5 3. g4) 3. ♕e2#
- 10) 1. fxg4 ♜f7 (otherwise the discovered attack 2. ♜f6+)
- 11) 1. ... ♜xc2 2. ♜e2 (2. ♜xc2? ♖xc2+ 3. ♖a1 ♖xd1+)
- 12) 1. ... ♜xh3 2. ♜d5 (2. ♖xh3? ♖h5+ 3. ♖g2 ♖xd1) 2. ... ♖c4 3. ♖xh3

54: Test: Mix C

- 1) 1. ♖b6 ♕xa2 2. ♕d2+ ♖c4 3. g8♖+ (passed pawn)
- 2) 1. ♖a4 ♕xa3 2. ♜b4 (transition to a won pawn endgame)
- 3) 1. b7 ♜xb7 2. ♖xb7 (avoiding stalemate)
- 4) 1. ♜f6 ♖d8 2. ♖xh6+ ♜xh6 3. ♕xh6# (mate in two)
- 5) 1. ... ♕b4 2. ♖c2 d4 (2. ... ♕xc3? 3. bxc3) 3. ♜e4 ♜xb5 (eliminating the defence: chasing away+material)
- 6) 1. ♜d7+ ♜5f7 2. ♕h5 ♜xd7 3. ♜xd7+(double attack)
- 7) 1. ... ♜xf6 2. ♕xc4 ♜d5+ (2. ... ♜e4+ 3. dxe4) (discovered attack)
- 8) 1. ♖xe4 ♜e6 2. ♜d8+ ♜xd8 3. ♖xe6 (capture an unprotected piece is correct thanks to a counter-attack)
- 9) 1. ♜xd6 ♜xd5 2. ♜e8+ (eliminating the defence: luring away+material)
- 10) 1. ♖xc5 ♖c4 2. ♖c7 (creating a passed pawn)
- 11) 1. ♜e5 ♜xd4 2. ♖d1 (2. cxd4 ♖xc1) (pin)
- 12) 1. ♖xg5 h6 2. ♖h4 (2. ♖g6 ♜f4+) (2. ♖g4 ♜e3+) (2. ♖h5 ♜f4+) (defending against a threat)

55: Test: Mix D

- 1) 1. ♜e2 b5 2. ♖f3
- 2) 1. f7+ ♖h8 2. ♜c8 ♜b8 (2. ... ♜xc8 3. f8♖+) 3. ♜xb8 ♜xb8 (defending against a loss of material)
- 3) 1. ... ♜ee8 2. ♕d6+ ♖g8 (2. ... ♜e7 3. ♜h8#) 3. ♕h7+ ♖h8 (getting out of check)
- 4) 1. ♜b3 ♖d1 2. ♖f5 (2. ♖e4 ♖h5) (pin)
- 5) 1. ♜c8+ ♜f8 2. ♜f1 (2. b8♖? ♖xb8) 1. ... ♜xc8 (2... ♖xb7 3. ♜xf8#) 3. bxc8♖# (mate in two)
- 6) 1. ♖a4+ ♜c6 2. 0-0-0 (2. ♜d1 ♕xc3+ (pin))
- 7) 1. ♜g1 ♖b2 2. ♖c6 ♜xe7 3. ♖a8+ (passed pawn)

- 8) 1. ♖h5 ♗xg4 2. ♜g5 (double attack with two pieces)
 9) 1. ♘c5 ♗b5 2. ♘a6+ (2. ♘e6 ♜c2 or 2. ... ♜e7) (double attack: knight)

Routeplanner

(4-2) (4-3)

♙a7-b6-a5-c3	♞b5-d4-c2-e1
♙a7-e3-d2-c3	♞f6-h7-g5-f3
♙a7-b8-d6-b4	♞c3-d5-f6-g8
♙d7-e8-g6-b1	♞g1-e2-f4-h5
♙d7-e6-a2-b1	♞e4-g5-f7-d8
♙f3-e2-c4-f7	♞b4-d3-f2-h3

56: Test: Mix E

- 1) 1. ♘h4 ♙xf5 2. ♜f3 (2. ♜f2? ♙xc2+ 3. ♚xc2 ♗xf2) (2. ♗f1 ♙xc2+ 3. ♚xc2 ♗xf1) (pin)
 2) 1. ♗xg7+ ♚h4 2. ♗c7 (creating a passed pawn)
 3) 1. b8♗ ♘c3+ 2. ♚a1 (2. ♚a3 ♙e7+) (getting out of check: preventing mate)
 4) 1. ♙b3 ♗xh1 2. ♗h4 (2. ♗c4 ♗a8; 2. ♗a7 ♗c6) (double attack: queen)
 5) 1. ♗xb5 ♜xa2 2. ♗d5 (2. ♗c4? ♜c2) (double attack: queen)
 6) 1. ♗xh7 ♜h8 2. f4 (defending against a loss of material)
 7) 1. ♙h6+ ♚g8 2. ♜g6+ fxg6 (2. ... hxg6 3. ♘f6#) 3. ♘f6# (mate by access and square clearance)
 8) 1. ... ♜fe8 2. ♗c3 ♚f8 (2. ... e5 3. ♜xe5 ♜xe5 4. ♗xe5) (defending against mate by moving away)
 9) 1. ♗xh6+ ♚g8 2. f4 ♜xg4 3. fxe5 (eliminating the defence: chasing away+mate)
 10) 1. cxd4 ♙xd4+ 2. ♘e3 (getting out of check: preventing loss of material)
 11) 1. ♜xd7+ ♚c6 2. ♜d5 (2. ♜xe7? ♙c5+) 2. ... ♚xd5; 2. ... a5+ 3. ♚c4; 2. ... ♙c5+ 3. ♚c4) 3. ♙g2# (defending against a loss of material)
 12) 1. ♘g6 ♜d8 2. ♗xc8+ (2. ♗f4+ ♚a8 3. ♘e7 ♜xd1+ 4. ♗c1 ♜xc1+ 5. ♚xc1 ♚b8) 2. ... ♚xc8 (2. ... ♜xc8 3. ♘e7) 3. ♘e7+ (intermediate move)