Step 3 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. ♕xb7 ♘c5 2. ♕xd5 (a pinned piece is not a good defender)
2) 1. ♖e2 ♖a3 2. ♗f2 (2. ♗d2? ♖d3+) (attack on a pinned piece)
3) 1. ♗xb6 ♖c6 2. ♗c5 ♖xc5 3. dxe5 ♗xe5 (a pinned piece is not a good defender)
4) 1. ... ♗h6+ 2. ♔b1 e5 (attack on a pinned piece)
5) 1. ... ♘e3 2. ♘d1 (2. ♘g4? ♘xg4+) (attack on a pinned piece)
6) 1. ... ♕e7+ 2. ♕e2 ♗xb5 (a pinned piece is not a good defender)
7) 1. ... 0-0-0 2. 0-0-0 ♗xg5 (a pinned piece is not a good defender)
8) 1. ... ♗g8 2. ♕e6 (2. ♕d8? ♕a2) (attack on a pinned piece)
9) 1. ... ♖b8 2. ♖f1 (2. a5 ♘c4) (pin)
10) 1. ... bxc6 2. ♕xc6 ♖c7 (pin)
11) 1. ... ♔e8 2. f3 wins a piece (2. ... ♘d2 3. ♗xg6#) (attack on a pinned piece)
12) 1. ... ♘d8 2. ♖xb7+ ♘xb7 3. ♖e8# (a pinned piece is not a good defender)

4: The pin: B

1) 1. ... ♗c5 2. 0-0 ♗xf5 (a pinned piece is not a good defender)
2) 1. h3 ♕g3 2. ♕c7 ♗xe4 (threatens mate on g2 so 3. ♕xe7 is not possible) (a pinned piece is not a good defender)
3) 1. ... ♘h4 2. ♗d1? (2. ♔h1!) 2. ... ♕xg2+ 3. ♖xg2 ♖f1# (a pinned piece is not a good defender)
4) 1. h3 ♖h4 2. g3 ♖xb4 (a pinned piece is not a good defender)
5) 1. ♕h5+ ♔f8 2. ♗b5 (pin)
6) 1. ♕d3 ♖xd5 2. ♕xd5 ♕xd5 (a pinned piece is not a good defender)
7) 1. ♖fe1 ♘c5 2. ♕xd5 (a pinned piece is not a good defender)
8) 1. ... ♘xd5 2. ♗f3 (2. ♗c4? ♘f4) (pin)
9) 1. ... exf4 2. gxf4 ♖h5! (2. ... ♖g3+? 3. ♗b3) (attack on a pinned piece)
10) 1. ♖a6+ ♔b2 2. ♖a7 (pin cross pin)
11) 1. ♗b5+ ♗c6 2. ♘d5 (attack on a pinned piece)
12) 1. ... ♘xd5 2. ♗f3 (2. ♗c4? ♖e7) (pin)

5: Defend against a pin: A

1) 1. ♕xe4 f6 2. ♕d5+ (2. ♕h4? ♘g6)
2) 1. ♘c4 ♕d7 (1. ... ♘f3+ 2. ♕xf3)
3) 1. ♗d6 ♘d5 2. ♗e5
4) 1. ♖c1 b5 (1. ... ♘e5? 2. f4) 2. axb6 ♘xb6
5) 1. ♗h2 ♖e7+ 2. ♔f2 ♘d5
6) 1. ... ♔g7 2. ♕xc4 ♕xd7
7) 1. ... ♕e6 2. ♖e1 ♘e5 (2. ... ♕xf5 3. ♖e8#)
8) 1. ... ♗xh4 2. ♖g2 ♗g5+
9) 1. ♕g8 ♕d1+ 2. ♔xe6 ♕b3+
10) 1. ♖xc3 ♘a4 2. ♖e3
11) 1. ♖f1 e5 2. ♘e6 ♗xd2? 3. ♖f8#
12) 1. ♖xf6 ♖d2 2. ♖f8+ ♖xf8 3. ♕xd2

6: Defend against a pin: B

1) 1. ♗c2 f5 2. ♕g3
2) 1. ♖b1 a3 2. ♕d4 (2. ♕b3? ♕xb3 3. axb3 axb2)

3) 1. ♕b2 ♕e5 (1. ... ♕c5? 2. ♖d2) 2. ♖d2 ♖d5
4) 1. ... ♘e7 2. ♘xd5 ♗e2
5) 1. ... ♘xe4 2. ♕a4 ♕b4
6) 1. ♕xe5 ♔e7 2. ♖d5 (2. ♕g7+ ♔xd6)
7) 1. ♘c3 e4 2. ♕xe4 (2. ♘xe4 ♕c6) 2. ... ♗xc3
8) 1. ♘c4 ♕c5+ 2. ♔f1 ♕xc4+
9) 1. ♖h7 ♖g7 2. ♖xg7 ♕h6+
10) 1. ♕c2 ♘a4 2. ♕b1 (with a mating threat)
11) 1. ♖d2 (1. ♖d6 ♗e2) 1. ... ♗b5 2. ♔h2
12) 1. ♕xc6 ♖c8 2. ♗e2

7: Attack on a pinned piece: A

1) 1. ♖d8 ♖xb2 2. ♗d6 (2. ♗h6? ♖b8)
2) 1. f4 ♘xc6 2. ♖b6 (2. ♖c3? ♔b7)
3) 1. ♖xf4 ♖xb4 2. ♘e3 (2. ♘d6? ♗d5+) 2. ... ♗d5+? (2. ... ♗f1+? 3. ♖xf1) 3. ♘xd5
4) 1. ♗d4 ♖c6 2. ♕c1 (1. ♕c3? b4 2. ♕d2 ♗d6)
5) 1. ♔f3 ♘f6 2. ♗xc7 ♘e8 (2. ... ♘d5? 3. ♗d6+)
6) 1. ♖b5 ♖xh5 2. ♗e4 (2. ♗b3? ♗f3)
7) 1. cxb5 cxb5 2. ♗d4 (2. b4? ♗f8)
8) 1. ♕xd4 ♖xe5 2. ♖b5 (2. f4? ♕c5)
9) 1. g3 ♕h3 2. ♕e1 (2. f4? ♗d4+)

Attack all the squares

(4-2)

b5	g2	h7	♕b7
a3	c7	h1	♕c1
a5	f7	g2	♕a2
a7	d1	h4	♕d4
b2	f7	h3	♕b3
d6	f7	g1	♕g6

(4-3)

b7	c4	h6	♕c6
a7	f8	h1	♕a8
b1	b7	g8	♕b3
b5	e7	h3	♕d7
b3	e7	g1	♕e3
a3	c2	g6	♕d3

8: Attack on a pinned piece: B

1) 1. ... cxd4 2. cxd4 ♗d3 (2. ... b5? 3. ♗e6+)
2) 1. ... g6 2. ♘e4 (2. b4? ♗d6) 2. ... ♗d6 3. ♘xd6
3) 1. ... ♘xc4 2. ♕b3 (2. ♕b4? ♘xe3) wins a piece as 2. ... ♘a5 3. ♖xc6 the queen on b3 is protected.
4) 1. ♗xe8 ♔xe8 2. ♕h5 (2. ♕b5+? ♕d7)
5) 1. ... ♘f4 2. ♖e1 (bad, better is 2. ♗h7+ ♔f8) 2. ... f5 (2. ... d5? 3. ♗h7+) as 3. ♗d5+ ♘xd5 and the rook is protected.
6) 1. ♕c2 ♘xc5 2. ♗e3 (2. ♗a3? ♘e4 as 3. ♕xc8? ♘f2#)
7) 1. ♖xe3 dxe3 2. ♗xe3 ♘f5 (2. ... ♘e4? 3. ♗d4)
8) 1. ♗f4+ ♔d7 2. ♘e5+ (2. ♘d4? ♗b7) 2. ... fxe5 3. ♗xc6+ and 4. ♖h8+
9) 1. ... ♘d6 2. ♕f3 ♕e8 (2. ... f5? 3. ♗d5+)

Blind / Mate in two

(4-2)

1) 1. ♔a7 ♔c8 2. ♕c7#
2) 1. a8♗ ♔a6 2. ♕b7#
3) 1. ♔c7 ♔a6 2. ♕b6#
4) 1. ♔e6 ♔f8 2. ♗f6#

(4-2)

1) 1. ♔b2 ♔a4 2. ♕a3#
2) 1. ♕c7 ♔a6 2. b8♘#
3) 1. b8♗ ♔b6 2. ♗c7#
4) 1. ♕h4 ♔f8 2. ♕d8#

9: Mate: visualising: A

1) 1. ♕h8 ♘f4 2. ♕h4#
   1. ♕h8 f4 2. ♕c8#
   1. ♕h8 ♔f4 2. ♕d4#
   1. ♕h8 ♔h3 2. ♕xh5#
2) 1. ♗c3 b4 2. ♕f3#
   1. ♗c3 ♖d3 2. ♕e5#
   1. ♗c3 ♖f5 2. ♕d4#
   1. ♗c3 ♔e3 2. ♕f3#
3) 1. ♘e4 ♔e6 2. ♕f7#
   1. ♘e4 ♔c6 2. ♕d6#
   1. ♘e4 ♔c4 2. ♕f7#
   1. ♘e4 ♔xe4 2. ♕f3#
4) 1. ♖d4 ♔xd4 2. ♕e5#
   1. ♖d4 f5 2. ♖xc4#
   1. ♖d4 ♗d5 2. ♕b4#
   1. ♖d4 ♗b5 2. ♕a7#
5) 1. ♕f4 ♗xg5 2. ♕f7#
   1. ♕f4 ♔g7 2. ♕f6#
   1. ♕f4 ♗g7 2. ♕f5#
   1. ♕f4 ♔h5 2. ♖xh6#
6) 1. ♕d5 ♖xc3 2. ♕xa5#
   1. ♕d5 axb4 2. ♕a8#
   1. ♕d5 ♖xb4+ 2. ♕b3#
   1. ♕d5 ♖c5 2. ♕b3#

How many times mate?

(4-2)

♕e4 ♖d2 ♔g1 3 x ♕b1# ♕e1# ♕g2#
♕g3 ♖c2 ♔h1 5 x ♖c1# ♕e1# ♕g2# ♖h2# ♕h2#
♕g6 ♙f7 ♔h8 4 x f8♕# f8♖# ♕g8# ♕h6#
♕e6 ♖g3 ♔h4 2 x ♕g4# ♕h3#
♕f5 ♖g3 ♔h4 4 x ♕g4# ♕g5# ♕h3# ♖h3#
♕c1 ♘b1 ♔a1 1 x ♘c3
♕f7 ♗e4 ♔h8 2 x ♕f8# ♕h7

(4-3)

♔g3 ♕c2 ♔h1 ♜h2 4 x ♕b1# ♕c1# ♕d1# ♕xh2#
♔g3 ♕e2 ♔h1 ♝h2 1 x ♕xh2#
♔f7 ♕e4 ♔h6 ♝g5 1 x ♕g6#

♔d6 ♕g7 ♗e7 ♚e8 3 x ♕f8# ♕g6# ♕g8#
♔f6 ♕g2 ♚h5 ♞f4 1 x ♕g5#
♕c1 ♗e4 ♚h8 ♝g8 3 x ♕a1# ♕b2# ♕c3#
♕e6 ♙d6 ♙h7 ♚f8 3 x ♕e7# ♕g8# h8♕#

10: Mate: visualising: B

1) 1. ♕d4 e5 2. ♕g4#
   1. ♕d4 e6 2. ♘d6#
   1. ♕d4 ♔e6 2. ♕d5#
   1. ♕d4 ♖a5 2. ♘g7#
2) 1. ♘c3 f3 2. ♕d5#
   1. ♘c3 ♔f5 2. ♕xd7#
   1. ♘c3 ♔d6 2. ♕b6#
   1. ♘c3 d6 2. ♕c8#
3) 1. ♕c1 d2 2. ♕xd2#
   1. ♕c1 e3 2. ♕c4#
   1. ♕c1 ♗b6 2. ♖d7#
   1. ♕c1 ♗b8 2. ♕c5#
4) 1. d4 ♗e6 2. ♕c5#
   1. d4 ♗xd4 2. c4#
   1. d4 ♔xd4 2. ♕c5#
   1. d4 e3 2. ♕e5#
5) 1. ♕e7 ♖g1 2. ♕h7#
   1. ♕e7 ♖h5 2. ♕e1#
   1. ♕e7 ♖g6+ 2. ♔xg6#
   1. ♕e7 ♖g7 2. ♔xg7#
6) 1. ♗a5 d2 2. ♕c3#
   1. ♗a5 ♔e3 2. ♕c5#
   1. ♗a5 ♔e5 2. ♗c3#
   1. ♗a5 ♔c4 2. ♕b4#

Defend against mate

(3-2)

1) 1. ... ♔a6
2) 1. ... ♖b8
3) 1. ... ♗xg6
4) 1. ... b1♘+

(3-3)

1) 1. ... ♕c6+
2) 1. ... ♔xh7
3) 1. ... ♕b5
4) 1. ... ♖h2 (1. … ♖f2? 2. ♖h8+ ♖f8 3. ♖a8+)

11: Double attack: pinned pieces

1) 1. ♖h6 ♘xg4 2. ♖g6+
2) 1. ♘xe4 ♖ae8 2. ♘f6+
3) 1. ... ♕g6 2. ♘h4 ♕g3
4) 1. ... ♖e4 2. ♕g5 (2. h3 ♖f4) 2. ... ♖xg4+
5) 1. ... ♘c5 2. ♕h3 ♘f4 3. ♕g4 ♘xe2+
6) 1. ♗a2 ♘f5 2. ♕e4 ♗d7 3. ♕xf5
7) 1. ♖g1 ♘xh2 2. ♕e5+
8) Drawing

9) Drawing
10) 1. ♘g4 (1. ♘f5? ♗e4) 1. ... ♕d5 2. ♘f6+
11) 1. ♗xg5 ♘xg5 2. f4+ (na 2. ... gxf3 komt 3. ♖xh4)
12) 1. ♗b2 ♗e5 2. ♕xc7+ ♗xc7+ 3. ♗xf6

12: Defend against the double attack: A
1) 1. ... ♔g8 2. ♘e5 ♕c2
2) 1. ♖e1 ♗f5 2. ♘d6 ♖f8 (2. ... ♖c5? 3. ♖e8#)
3) 1. ♖xc4 ♕d5 2. ♖a4 (threatens mate)
4) 1. ... ♘xb4 2. ♕xb7 ♖b8 (2. ... ♖a1+? 3. ♔g2; ♞b4 is hanging and mate on c8 threatens.)
5) 1. ♘xc4 ♕h4 2. ♖e4
6) 1. ♕d5 ♖a3 threatens 2. ... ♖xf3# and the bishop is ‘safe’ because of 2. ♕xd1 g5#
7) 1. ♖xb7 ♘a5 2. ♕b6
8) 1. dxe5 ♕xe5 2. ♗f4 (the cross pin saves)
9) 1. ♗c5 ♕b2 2. ♔d2
10) 1. ... ♘g6 2. e5 ♗xe5 3. fxe5 ♕h4+
11) 1. ♘5f4 ♗d2 2. ♖c4 (2. ♖f1? g5)
12) 1. ♘xc4 ♗a4 2. b3 (2. ♖c1? ♗b3) 2. ... ♗xb3 3. ♖b1

13: Defend against the double attack: B
1) 1. ♔g1 ♗c4 2. ♘d2 (2. ♘a5? ♗d3)
2) 1. ... ♘xd5 2. ♕xc5 ♗a6 (3. ♕xd5? ♗b7)
3) 1. ... ♖xc2 2. ♕d1 ♕c7 (2. ... ♖c8? 3. ♖e1)
4) 1. ... ♕xc3 2. e5 ♘d5 (otherwise 3. ♗h7+)
5) 1. ... ♘d5 2. ♕xc5 ♗e6 3. ♕f8+ ♗g8
6) 1. ♗xd5 ♕d3 2. ♗e6 (2. ... ♕xb1? 3. ♗f5+)
7) 1. ... ♖xd8 2. ♕xd8 ♖a1+ (2. ... ♗b7? 3. ♕xf6) 3. ♔h2 ♗b7 (3. ... ♘g4+? 4. ♔h3)
8) 1. ♕c4 ♕b6+ 2. ♗e3 (2. ♔h1? ♖xb1)
9) 1. ... ♗xe6 2. ♕xb7 ♖c8 (2. ... ♘c7? 3. ♕xc7 ♖c8 4. ♕f4)

Blind / Defend against the double attack
(4-2)
1) ♗c3
2) ♖e4
3) ♘3d4
4) ♗d4
5) ♗e4
6) ♘f5
7) ♗d6, ♗c3

(4-3)
1) ♖c7
2) ♖a7
3) ♘c5
4) ♘e4
5) ♖g1
6) ♘d7
7) ♘d5 (and after 1. ... ♕d7 Black has 2. ♖d6! = defend against chasing away and material)

14: Double attack: A
1) 1. ... fxe4 2. dxe4 ♕a6+ (2. ... ♕h3+? 3. ♕g2+)
2) 1. ♗xd7 ♖xd7 2. ♕e8+ (2. ♕e6+? ♖f7)
3) 1. ... ♖xb2 2. ♕a3 (2. ♕c3? ♕d2)

4) 1. ♗b4 ♗xf2 2. ♕f4 (2. ♕d2? ♗g3)
5) 1. ♗xd7 ♖xd7 2. 0-0 ♖d2 (2. ... ♖c2? 3. ♖f8#)
6) 1. b5 ♗d7 2. ♘xg5 ♕g1+ (2. ... ♕c5+? 3. ♕c4)

Blind games / Double attack

(3-1)	(3-2)	(3-3)
4. ♕a4+	4. ♘d5	
4. ♕e4+	4. ♕xg7	
4. e5	4. ... ♕xe4+	
4. fxe5	4. ♕f3	
4. ♕xe5+	4. d4	4. ♕d5
4. ... g4	4. ... ♕xe4+	4. ... ♕a5+
4. ... ♕a5+	4. ♕a4+	4. ... ♕f6

15: Double attack: B

1) 1. ... ♗g7 2. ♘xg6 ♕f6 (2. ... ♕e4+? 3. ♗c2)
2) 1. ♘xd7+ ♕xd7 2. ♖e7 ♕c6 (2. ... ♕d5? 3. ♖e8+)
3) 1. ... ♕d6 2. ♘e4 ♕g6 (2. ... ♕d3? 3. ♖e1)
4) 1. ... ♘xe4 2. ♕f3 (2. ♕d5? ♘c3+)
5) 1. ♗xa4 ♕a7+ (1. ... ♕a5? 2. ♕d1)
6) 1. ♗c1 ♕b5 (1. ... ♕d5+? 2. e4)

Blind games / Double attack

(3-1)	(3-2)	(3-3)
5. ♕xe5+	5. ... ♕a5+	
5. ♘xf7	5. ... ♕b4+	
5. ♕b3	5. ♕a4+	
5. ♕e4+	5. ... ♕a5+	
5. ♕a4+	5. ... ♕a5+	5. ♘d5
5. ... ♘xc2+	5. ♕d5	5. ♕a4+
5. ... ♕e5+	5. ♕b5+	5. ... ♕d4

16: Threat and defence: A

1) 1. ... ♖xb5 2. ♗c6 [3. ♖e8# / 3. ♗xb5] 2. ... ♖e5
2) 1. ... axb5 2. ♖d6 [3. ♗d5+ / 3. ♖xh6] 2. ... ♔g7
3) 1. ♖b7 ♗c6 2. ♖b8 [2. ... ♗xb7 / 2. ... ♖d1#] 2. ♖b8
4) 1. h4 ♖c3 [2. ... f5# / 2. ... ♖g3#] 2. h5+ (2. hxg5? fxg5)
5) 1. ... ♕a5 2. f5 [3. ♕xc4 / 3. f6] 2. ... ♘e5
6) 1. ♗xh6 ♘g4 [2. ... ♖e1# / 2. .... ♘xh6] 2. ♗d2
7) 1. ... ♗c8 2. d6 [3. dxc7 / 3. ♗d5+] 2. ... ♖c5
8) 1. ♖be1 f3 [2. ... fxe2 / 2. ... ♕h3] 2. ♕e6
9) 1. ... ♔f7 2. d6 [3. dxc7 / 3. d7] 2. ... ♗b5+

17: Threat and defence: B

1) 1. ... ♗xb5 2. ♖d4 [3. ♖xg4 / 3. ♖b4] 2. ... ♗e2
2) 1. ... ♗xh4 2. ♕e4 [3. ♕xh4/ 3. ♘e7+] 2. ... ♗g5+
3) 1. ... h5 2. ♖exc4 [3. ♗d5/ 3. b4] 2. ... ♖d8 (2. ... ♖fc7 3. b4)
4) 1. h3 ♘g4 [2. ... ♘xf2 / 2. ... ♗f4+] 2. ♗c4+
5) 1. ♖hh1 ♗f4 [2. ... ♖xe2 / 2. ... ♘e4] 2. ♗d3 (1. ♗f3 ♘c4)
6) 1. ... ♖d8 2. ♕g4 [3. ♘h6+ / 3. ♕xg7#] 2. ... ♕d7
7) 1. ... ♔f7 2. ♕e4 [3. ♕(♘)xd4/ 3. ♕h7+] 2. ... ♘e6 3. ♕h7+ ♘g7
8) Drawing
9) 1. ♖c1 ♘e4 [2. ... ♘xg3 / 2. ... b5] 2. ♗f4

18: Threat and defence: C

1) 1. ... ♕c6 2. ♘f4 [3. ♕xe7 / 3. ♘g6+] 2. ... ♕e4
2) 1. ... gxf6 2. ♗xf6 [3. ♖xd6 / 3. ♖h1] 2. ... ♗f8
3) 1. ... c5 2. ♘f5 [3. ♘xd6 / 3. ♗xf6] 2. ... ♗e5
4) 1. ♖fd1 e4 [2. ... exf3 / 2. ... ♗xh2+] 2. ♘d4
5) 1. ♖xe8+ ♖xe8 [2. ... ♕h1# / 2. ... ♕h3+ ♖e1#] 2. ♕e4 (2. ... ♕h3+ 3. ♔g1 ♔f8 4. ♖a8; 2. ... ♖xe4 3. ♖a8+)
6) 1. ♖xg4 ♖b1 [2. ... ♖xf1+ / 2. ... a1♕] 2. ♖fg1 a1♕ 3. ♖h5#
7) 1. ... ♔h8 2. ♕h5 [3. ♕(♘)xd5 / 3. ♕xh7+] 2. ... ♗e6
8) 1. ... ♔f8 2. ♘f4 [3. ♕xe7 / 3. ♘g6+] 2. ... ♕e8
9) 1. ... ♘f5 2. ♕g5 [3. ♕xd8+ / 3. ♗xf5] 2. ... ♕a5

19: Test / Mix: A

1) 1. ♖c1 ♗xa3 2. ♘a4 (2. ♘xd5 ♗xc1 3. ♘xb6 ♖xd3) (discovered attack)
2) 1. ♘e4 ♗xe4 2. ♕c8+ (2. ♗xe4 ♗h2+) (in-between move)
3) 1. ♖xf7 ♕a8 2. ♕xe6 (eliminating the defence: luring away+ mate)
4) 1. e4 ♘xc3 2. ♗xc3 (2. ♘xc3 ♗xd4+; 2. ♖xc3 ♗xd4+ 3. ♘xd4 ♖xc3)
5) 1. ... ♖d3 2. ♗xc4 ♖c3 (the pin)
6) 1. ... ♘f7 2. ♘fg5 ♖e5 (trapping)
7) 1. g4 d5 2. ♕xf5 ♗xf5 3. gxh5 (in-between move: desperado)
8) 1. ... c4 2. dxc4 e4 (eliminating the defence: chasing away+ mate)
9) 1. ... ♖fe8 2. ♖xb7 ♖ed8 (2. ... ♖cd8? 3. ♔c2) (cashing in a passed pawn)
10) 1. ... ♗xe5 2. ♖xe5 ♕b4 (defend against the double attack)
11) 1. ♖1xd4 ♘c6 2. ♖4d7 (2. ♖8d7 ♘xd4 3. ♖xe7 ♘f5+) (defend against the double attack)
12) 1. ♕xe7 ♗f6 (trapping)

20: Test / Mix: B

1) 1. ... c5 2. ♗e5 ♖g5 3. ♗f4 ♖xf4 (trapping thanks to a pin)
2) 1. ♗xe3 dxe3 2. ♖xe3 ♕d2 (the pin)
3) 1. ... ♖ac8+ 2. ♘c3 ♕f5 (threaten mate)
4) 1. ... ♖xd1+ 2. ♕xd1 (2. ♔xd1 ♕d8+) (prevent a double attack; choose the right capture)
5) 1. ♗xe7 ♖xe7 2. ♖xb6 (the pin: a pinned piece is not a good defender)
6) 1. ♘b4 ♖b6 2. ♔a1 ♖xb4 (the pin: a pinned piece is not a good defender)
7) 1. ♘c4 ♖a4 2. ♘e3 ♗xe3
8) 1. b7 (after 1. a7 comes the same) 1. ... ♔d2 (1. ... ♔d1) 2. a7 ♖e3+ (defend by perpetual check)
9) 1. ♔d3 ♔xa3 2. ♔c2 ♔a2 3. c4 a3 4. c5 ♔a1 5. c6 a2 6. c7 a4 7. c8♕ a3 8. ♕c3# (pawn ending: keeping the king out of the square of the pawn)
10) 1. ... ♖xg3 2. fxg3 ♖d2 (the pin)
11) 1. ♘b5 ♕xc5 2. ♕f1 (2. ♕f4? ♕xc1+ 3. ♗xc1 ♖d1+) (discovered attack and X-ray attack)
12) 1. ... ♖d8 2. ♗d4 (2. ♗a5 ♕xc1) (cross pin)

21: Defend against a threat: A

1) 1. ... ♗xc3 2. ♖d3 ♘d5 (2. ... ♗a5 3. b4); 2. ... ♖ac8 3. ♖xc3 b5 always costs a pawn.
2) 1. ... ♖xb4 2. ♘e5 ♗g4 (otherwise 3. ♘d7+ and mate)
3) 1. ... ♖xb4 2. ♕c3 ♖e4 (defends against 3. ♕c8+ and mate)
4) 1. ♖a8+ ♘d8 2. ♖xd8+ ♗e8 (3. ... ♖e8 4. ♖xd7)
5) 1. ♕xa4 ♖c4 2. ♖c1 (the queen has no squares)
6) 1. ♕e6 ♗xf2 2. ♕d7+ (2. g4 fxg3+ 3. ♔g2 ♗c5)
7) 1. ♗xc6 ♘g4 2. ♗f3 (and now 2. ... ♘e3+ as 2. ... ♘h2+ is harmless)
8) 1. ♖f1 ♖e1 2. c5 (and now after 2. ... ♖xf1+, comes 3. ♗xf1)
9) 1. ... ♘d2 2. ♖xd2 ♕h5
10) 1. ♖xc3 ♕xb2 2. ♖c8+ ♖xc8 3. ♕xb2

11) 1. ♕e6+ ♔b7 2. ♕e3 (protects c3 and c1)
12) 1. ♖a8+ ♔h7 2. ♖e8 (X-ray protection of e1)

22: Defend against a threat: B

1) 1. ... ♔e8 2. ♕xd6 ♗b5
2) Drawing
3) 1. ♗xe5 ♕b7 2. ♘c3
4) 1. ... ♘xc5 2. ♘cd4 ♗e4
5) 1. ♖xg7 ♕f6 2. ♗h6
6) 1. ♕e2 d3 2. ♗xe5+ ♘xe5 3. ♕d2
7) 1. ♖xc6 ♘d4 2. ♖f6 (2. ♖xb6 ♘e2+)
8) 1. ... ♕xc5 2. ♗e3 ♕b5
9) 1. ... ♕xe5 2. ♕d7 ♕e8 (2. ... ♕f6? 3. ♘h7+; 2. ... ♕e7? 3. ♘h7+ ♔g8 4. ♕xe7)
10) 1. ... f6 2. ♖f3 h6 (prevents 3. ♕xh7+ and mate on h3)
11) 1. b7 ♖xd6 2. b8♘ (2. b8♕? ♖xd7+ 3. ♔xd7 ♗xb8)
12) 1. ... ♕d7 2. ♕c3 0-0

23: Defend against a threat: C

1) 1. ... ♗e6 2. ♕b3 d5 (2. ... ♗xc4 3. ♕xc4+ d5 4. ♕xg4)
2) 1. ♘xe7+ ♔f8 2. ♘c8
3) 1. ♗xg8 ♕g7 2. ♗h7
4) 1. ... ♖hf8 2. ♖f1 ♖xf7
5) 1. ♕d3 ♗e4 2. ♕d6
6) 1. ... ♘e3 2. ♖f2 f5 3. ♖e1 f4
7) 1. ... ♘xb3 2. ♖b2 ♘d4 3. ♖xb8 ♘e2+
8) 1. ... ♖xb2 2. 0-0-0 ♖xa2 3. ♔b1 ♗d5
9) 1. ♘xe4 c4 2. ♘d6 (2. ♗a2 ♗xe4 3. ♖xe4? ♖h1+)
10) 1. ... a3 2. ♕xe7 ♕e5+ 3. ♕xe5 fxe5
11) 1. ♘g5 (2. ♘xf7+ / 2. ♕xh7#) 1. ... ♔g8 2. ♕xh7+ ♔f8
12) 1. ♔xf2 ♖e4 2. ♖e1

24: Mate: visualising: C

1) 1. ♗g4 ♔xg4 2. ♕g6#
   1. ♗g4 g6 2. ♕f4#
   1. ♗g4 ♖f8 2. ♕xg7#
   1. ♗g4 ♔h6 2. ♕h5#
2) 1. ♕e2 b4 2. ♘f4#
   1. ♕e2 d5 2. ♕c2#
   1. ♕e2 ♔d5 2. ♘b4#
   1. ♕e2 ♘d5 2. ♕e4#
3) 1. ♗f4 gxh5 2. ♕e3#
   1. ♗f4 ♗xf4 2. ♖d5#
   1. ♗f4 ♔c5 2. ♗e3#
   1. ♗f4 ♔d3 2. ♕e3#
4) 1. ♕e8 cxd6 2. ♖h5#
   1. ♕e8 c6 2. ♕h5#
   1. ♕e8 c5 2. ♕e4#
   1. ♕e8 cxb6 2. ♕b5#
5) 1. ♕e5 ♔a7 2. ♘c8#
   1. ♕e5 ♘c7 2. ♕d4#
   1. ♕e5 ♗xc4 2. ♕a5#
   1. ♕e5 ♗b5 2. c5#
6) 1. ♗h4 ♗g7 2. ♕f7#

1. ♗h4 ♖g6 2. ♕f3#
1. ♗h4 ♖g7 2. ♕h6#
1. ♗h4 ♖h8 2. ♕f7#

7) 1. ♘e3 ♗a2 2. ♘c2#
1. ♘e3 c4 2. ♕d5#
1. ♘e3 e4 2. ♕h8#
1. ♘e3 ♗e4 2. ♕a1#

8) 1. ♖b8 a3 2. ♘c3#
1. ♖b8 c3 2. ♕xc3#
1. ♖b8 ♔b3 2. ♕b2#
1. ♖b8 ♔a5 2. ♘c7#

9) 1. ♗a3 ♔d6 2. ♖c4#
1. ♗a3 ♔d8 2. ♖d4#
1. ♗a3 ♔f8 2. ♖g4#
1. ♗a3 ♔f6 2. ♖f4#

25: Mate: visualising: D

1) 1. ♗e8 ♔e4 2. ♗c6+ ♔e3 3. ♖f3#
1. ♗e8 ♔d3 2. ♖f3+ ♔e4 3. ♗c6#
1. ♗e8 e4 2. ♗g6 ♔d3 3. ♖f3#

2) 1. d4 ♔b5 2. ♗d3+ ♔a5 3. ♖a6#
1. d4 a6 2. ♖xa6+ ♔b5 3. ♗d3#
1. d4 a5 2. ♖e5 fxe5 3. ♗d7#

3) 1. d7 g5 2. d8♖ ♔f6 3. ♖f8#
1. d7 gxf5 2. d8♘+ ♔f8 3. ♗d6#
1. d7 ♔f8 2. d8♕+ ♔f7 3. fxg6#; 3. ♕e7#

4) 1. ♘e2 ♖xh4 2. ♘c3+ ♔a5 3. ♕b5#
1. ♘e2 e4 2. ♗e1 ♖b5 3. ♕a2#
1. ♘e2 ♔a5 2. ♗d8+ ♔a4 3. ♘c3#

5) 1. d4 cxd3 2. ♕d2 f2 3. ♕d1#
1. d4 cxd3 2. ♕d2 ♔g1 3. ♕e1#
1. d4 f2 2. ♕e4 ♔g1 3. ♕g2#

6) 1. ♘b7 ♔f7 2. ♘d6+ ♔f6 3. e5#
1. ♘b7 d6 2. ♘d8 d5 3. ♖e6#
1. ♘b7 d5 2. e5+ ♔f7 3. ♘d6#

Blind / Mate in two

(3-1)

1) 1. ♕c4 ♔e8 2. ♕c8#
2) 1. ♕b1 ♔a5 2. ♕b5#; 1. ... ♔b7 2. ♕b7#
3) 1. ♔f7 ♔h7 2. ♕h4#
4) 1. ♕h6 ♔a4 2. ♕a6#
5) 1. ♕a7 ♔e8 2. ♕e7#; 1. ... ♔g8 2. ♕g7#
6) 1. ♔c4 ♔a3 2. ♕a1#; 1. ... ♔a5 2. ♕a7#

(3-2)

1) 1. ♕f6 ♔h7 2. ♕g7#
2) 1. ♕h7 ♔c8 2. ♕c7#
3) 1. ♕c2+ ♔a3 2. ♗c5#; 1. ... ♔a1 2. ♗d4#
4) 1. ♕b3 ♔a6 2. ♕b6#
5) 1. ♕b1 ♔a4 2. ♕b4#; 1. ... ♔a6 2. ♕b6#
6) 1. ♕b2 ♔e1 2. ♕e2#

26: Choose the right move: A

1) 1. ... ♖d1+ 2. ♔f2 ♗c5+
   1. ... ♖d1+ 2. ♔h2 ♗d6+
   1. ... ♖d1+ 2. ♖f1 ♗c5+
2) 1. ♗f2+ ♕xf2 2. ♕a7+
   1. ♗f2+ ♔c4 2. ♕b3#
   1. ♗f2+ ♔c6 2. ♕a8+
3) 1. ... ♕d2 2. ♗f2 ♕xe1#
   1. ... ♕d2 2. ♕c3 ♕g2#
   1. ... ♕d2 2. ♕b2 ♕xe1#
4) Drawing
5) 1. ... ♖a8+ 2. ♔b4 ♖a4#
   1. ... ♖a8+ 2. ♔b2 ♖a2+
   1. ... ♖a8+ 2. ♖a6 b4+
6) 1. ♕f6 ♘xf6 2. ♖d8+
   1. ♕f6 ♕xe5 2. ♕d8#
   1. ♕f6 ♖c8 2. ♕g7#
7) 1. ... ♕e2+ 2. ♔f5 ♕f3#
   1. ... ♕e2+ 2. ♔h4 ♕h2+
   1. ... ♕e2+ 2. ♔h3 ♘g5+
8) 1. ♕d2+ ♔e5 2. ♕f4#
   1. ♕d2+ ♔e4 2. ♕c2+
   1. ♕d2+ ♔c4 2. ♕c3#
   1. ♕d2+ ♕d3 2. ♕xd3+ ♔xd3 3. h5
9) 1. ♕c4+ ♔xb6 2. ♕c7#
   1. ♕c4+ bxc4 2. ♗e3#
   1. ♕c4+♔xc4 2. ♖c6#

27: Choose the right move: B

1) 1. ♕f4 ♗d6 2. ♘xd6
   1. ♕f4 ♗e6 2. ♕xe5 (2. ♘xe5? ♗d6)
   1. ♕f4 f6 2. ♕xf5 ♘xc4 3. ♕e6+
2) 1. ... ♖b8 2. ♘c4 ♖b4
   1. ... ♖b8 2. ♘d3 c4
   1. ... ♖b8 2. ♗a3 ♖e8 3. f4 f6
3) 1. ... ♖e1 2. ♕xe1 ♕h5#
   1. ... ♖e1 2. ♖xe1 ♕g2#
   1. ... ♖e1 2. ♕g4 ♕h1+
4) 1. ♔g2 ♖e1 2. ♖xg3
   1. ♔g2 ♗f4 2. ♖xe4
   1. ♔g2 ♗f2 2. ♖e2
5) 1. ♕c3 ♕xh5 2. ♕a5+
   1. ♕c3 ♕h4+ 2. ♘f6+
   1. ♕c3 ♔e4 2. ♘g3+
6) 1. ♘g6 ♖c8 2. b3
   1. ♘g6 ♗d3 2. ♘f4+
   1. ♘g6 ♗b3 2. ♖e2+
7) 1. ♗h5 ♘d8 2. ♖xd8
   1. ♗h5 g6 2. ♗h6#
   1. ♗h5 ♕b3 2. c4
8) 1. ... ♘d8 2. ♕xe6 ♖xc1+
   1. ... ♘d8 2. ♕e3 ♕xe3
   1. ... ♘d8 2. ♖xc8 ♕xb6

9) 1. ... ♘g4 2. f4 ♗xg5
1. ... ♘g4 2. ♘f3 ♗xg5
1. ... ♘g4 2. ♗xe7 ♕xh2#

28: Choose the right move: C

1) 1. ♕b7 ♖e6 2. ♕xe7
1. ♕b7 ♕e8 2. ♕xc6
1. ♕b7 ♖c7 2. ♕b8+
2) 1. d5 ♘xd5 2. ♕xb2
1. d5 ♖d2 2. ♘xd2
1. d5 ♖c2 2. ♕f5+
3) 1. ... ♖ac8 2. ♘h4 ♕b1#
1. ... ♖ac8 2. ♕a2 ♕c2#
1. ... ♖ac8 2. ♖e4 ♕xe4
4) 1. ♕xd5+ ♗e6 2. ♕xe4
1. ♕xd5+ ♕xd5 2. ♖f8#
1. ♕xd5+ ♖e6 2. ♕d8+! (2. ♕xc5? ♖e1+!)
5) 1. ... ♕c7 2. ♕xc7 ♖b1+
1. ... ♕c7 2. ♕f1 ♕xf4
1. ... ♕c7 2. e5 ♕xc4! (2. ... ♖b1+? 3. ♖f1!)
6) 1. ♗g3 ♗d2+ 2. ♔d1 (2. ♔f1? ♗b5+)
1. ♗g3 ♖d2 2. f4
1. ♗g3 ♗e3 2. ♗xh2
7) 1. ♘a5 ♘xa5 2. ♖xa7
1. ♘a5 ♗xf2+ 2. ♔f1
1. ♘a5 ♗b6 2. ♘xb3
8) 1. ♕d8 ♕xf7 2. ♕xf8+ ♕g8
1. ♕d8 ♖c8 2. ♕xc8
1. ♕d8 ♗c5 2. ♕xc7 (2. ♖b8 ♕xf7)
9) 1. ... ♘f6+ 2. ♔xe5 ♘g4+
1. ... ♘f6+ 2. ♔e3 ♘d5+! (2. ... ♘g4+? 3. ♔e2 ♖c1 4. ♖h3)
1. ... ♘f6+ 2. ♔f3 ♖d3+

29: Trapping: A

1) 1. ... ♕xh2+ 2. ♔f1 ♗f4
2) 1. ... ♕f6 2. c3 ♖e7
3) 1. ... ♘f6 2. f3 ♗d5
4) 1. ... axb5 2. ♕xa8 ♘b6
5) 1. g4 ♗g6 2. ♗g5
6) 1. ... ♘c5 2. ♕d5 ♘e7 (2. ... ♘xd3? 3. ♗a5)
7) 1. ♘h6+ gxh6 2. ♖f5
8) 1. ♘c5 ♕b5 2. a4
9) 1. ... ♗g4 2. ♕f2 ♘d3
10) 1. ... ♖d3 2. ♕e5 ♖e3
11) 1. ♗b6 ♕b4 2. ♘a2
12) 1. ♕e6+ (1. ♖e3 ♕xc4) 1. ... ♔b8 2. ♖e3

30: Trapping: B

1) 1. ... ♘e4 2. ♕f4 g5
2) Drawing Lucas van Foreest Dutch champion 2019
3) 1. ♘xf7 ♔xf7 2. ♗f4
4) 1. d5 ♕xe4 2. ♖d4
5) 1. ♖f2 ♕xa2 2. ♘a3

6) 1. ... ♖a5 2. ♕e4 ♗f5
7) 1. ♖e4 ♕d2 2. ♗f4
8) 1. ♘e5 ♖dd8 2. ♘g4
9) 1. ... ♘d5 2. ♕xb7 ♘c5
10) 1. ♖d6 ♘xb4 2. e4
11) 1. ... ♘b4 2. ♕xb7 c6
12) 1. ♗a7+ ♔c7 2. ♖a4

31: Mate: yes or no?

1) 1. 1. ♕e8+ ♔d6 2. c5+ ♔d5 3. ♕e4# (yes)
2) 1. 1. ♖e5+ ♔c4 2. ♖c5+ ♔d3 3. ♖c3+ (no 3. ... ♔xd4)
3) 1. h3 ♕d7 2. ♕e5+ ♔f3 3. ♖f1# (yes)
4) 1. ♖h8+ ♔xh8 2. ♕h6+ ♖h7 3. ♕f8+ (no 3. ... ♕xf8)
5) 1. ♕g4+ ♔f6 2. e5+ dxe5 3. ♗g5+ (no 3. ... ♔xg6)
6) 1. ♖xh7+ ♔g4 2. ♖h4+ ♔f3 3. ♗d5# (yes)
7) 1. ♕c8+ ♔g7 2. ♗f8+ ♔g6 3. ♕f5# (yes)
8) 1. ♖xh6+ gxh6 2. ♘xf7+ ♔h7 ♕d3+ (no 4. ... ♘e4+)
9) 1. ♘g8+ ♔h5 2. ♘f6+ ♔h4 3. ♘f3# (yes)

Where is the king mated?

(4-2)

1) ♚f8
2) ♚d4
3) ♚d5
4) ♚a5
5) ♚e8
6) ♚h4

(4-3)

1) ♚d8
2) ♚e8
3) ♚a5
4) ♚c8
5) ♚h5
6) ♚h5

32: Pawn endings: square or the pawn

1) 1. ♘xf4 ♔xf4 2. d6! (2. b5? ♔e5 3. b6 ♔d6) 2. ... exd6 3. b5 1-0
2) 1. ♖xd5+ ♖xd5+ 2. ♔xd5 ♔c3 3. ♔c5 1-0
3) 1. ♔xg5 ♔xf2 2. ♔f4 1-0 (2. ♔xf5? ♔g3 ½-½)
4) 1. ♖xc6 (1. b4 ♖g5+ 2. ♔xc6 ♔c4 ½-½) 1. ... ♖xc6+ 2. ♔xc6 ♔c4 ½-½
5) 1. ... b4 (1. ... ♔d5 2. ♔b6 ♔c4 3. ♔c6 b4 4. a4 ♔c3 5. ♔c5 1-0) 2. a4! ♔c4 3. ♔c6 ♔c3 4. ♔c5 1-0
6) 1. b7 e2 2. b8♕ e1♕ 3. ♕g3+ ♕xg3 4. hxg3 1-0
7) 1. g5 ♔xf5 2. gxh6! 1-0 (2. g6? ♔e6 0-1)
8) 1. ... ♔c6 2. e6 a4! 0-1 (2. ... ♔d6? 3. e7 ♔xe7 4. ♔xd5 ½-½)
9) 1. ♖xg4 hxg4 2. h3 (2. h4? ♔xf2; 2. f4? gxf3 3. h4 f2 0-1) 2. ... ♔xf2 (2. ... gxh3 3. f4) 3. hxg4 1-0

Pawn endings: square or the pawn

(4-2)

1. h4	1-0
1. ♔c5	½-½
1. ♔e5	½-½
1. ♔f3	0-1

1. ♔d3 1-0
1. ♔e6 ½-½

(4-3)
1. g6 1-0
1. ♔f3 1-0
1. ♔b1 ½-½
1. ♔d5 1-0
1. c4 1-0
1. d6 ♔f8 0-1 (1. ... ♔f6? 2. d5 1-0)

33: Pawn endings: rook pawn

1) 1. h5 ♔e4 (1. ... Kg4? 2. h6 Kh5 3. Kg1 1-0) 2. h6 ♔d5 3. ♔g7 ♔e6 4. ♔xh7 ♔f7 ½-½
2) 1. ... ♔g7 2. e5 fxe5 3. ♔g5 ½-½
3) 1. ♖g6 ♖xd6 2. ♔e5 ♖xg6 3. hxg6 1-0; 2. ♖xd6+ ♔xd6 3. ♔g6 ♔e7 4. ♔xh6 ♔f8 ½-½
4) 1. ... a5 2. ♔d6 ♔c8 3. ♔xe5 ♔c7 4. ♔d4 ½-½
5) 1. ♔b6 ♔f5 2. ♔xa5 ♔e6 3. ♔xa6 ♔d7 4. ♔b7 1-0
6) 1. ♔d4 (1. ♔d3? a4 2. ♔c4 a3 3. bxa3 ½-½) 1. ... a4 2. ♔c5 (2. ♔c4 a3 3. bxa3 ♔e6 4. ♔c5 ♔d7 5. ♔b6 ♔c8 ½-½) 2. ... a3 3. bxa3 ♔e7 4. ♔c6 ♔d8 5. ♔b7 1-0
7) 1. ♘xc5 bxc5 2. ♔e5 (2. ♔d5? ♔f5 3. ♔xc5 ♔g4 0-1) 2. ... c4 3. ♔d4 ½-½
8) 1. ♔f2 (1. h5? ♔g2 2. hxg6 f2+ 3. ♔d2 f1♕ 4. g7 ♕f7 0-1) 1. ... ♔h3 2. h5 gxh5 3. ♔xf3 ½-½
9) 1. ... ♔c3 (1. ... ♔d3 2. ♔e5! (2. ♔f3? ♔c4) 2. ... ♔c4 3. ♔d6 ♔b5 4. ♔c7 ½-½) 2. ♔e3 ½-½

(4-2)
♔g7 (1-0: shielding off)
♔c1 (½-½: on the way to the corner or imprison black king after 1. ... ♔a2)
♔c3 (½-½: imprison the black king after 1. ... ♔a2)
♔f4 (½-½: conquering the pawn. 1. ♔f5? ♔g3 is losing)
♔g6 (1-0: sustaining the pawn)
h7 (1-0:the black king is outside the square of the pawn. Shielding off is useless 1. ♔h5? ♔f6 draw)

(4-3)
♔e3 (½-½: imprison the black king after 1. ... ♔xh2 2. ♔f2)
h4 (½-½: the black king must lose time capturing the pawn. The white king will reach f1.)
♔e5 (1-0: White wins the h7-pawn and is shielding off the black king: 1. ... ♔d3 2. ♔f6 ♔e4 3. ♔g7)
♔c6 (½-½: only with this move White will be in time on f2 to imprison the black king.
h6 (1-0: after 1. ♔g7 ♔f5 2. h6 ♔e6 Black is in time.
h4 (½-½: after 1. ... gxh4 Black has a rook pawn and after 1. ... ♔xh4 2. ♔h2 White can defend the key squares of the g-pawn.

34: Pawn endings: key squares: A

1) 1. ♗f3 ♔c7 2. ♗xc6 ♔xc6 3. ♔e4 ♔d6 4. ♔d4 1-0
2) 1. ♔d5 ♔xg4 2. ♔e4! 1-0 (2. ♔xe5? ♔f3 ½-½)
3) 1. ... e5 2. dxe5 ♔xe5 0-1 (2. ... fxe5? 3. e4+ fxe4+ 4. ♔e3 ½-½)
4) 1. ♔d2 ♔d4 2. e6 dxe6 3. e5 ♔xe5 4. ♔e3
5) 1. g5 g6+ (1. ... ♔h8 2. ♔g6 ♔g8 3. h6 gxh6 4. ♔xh6 1-0) 2. ♔f6 (2. fxg6+? ♔g7 3. ♔f4 ♔xg6 ½-½) 2. ... gxh5 3. ♔f7 1-0
6) 1. ... ♕d6 (1. ... ♕xd5 2. ♔xd5 1-0) 2. ♔c4 1-0
7) 1. gxf5 ♖xf5 2. ♖f3 ♖xf3+ 3. ♔xf3 1-0 (3. gxf3? ♔f7 ½-½)
8) 1. ♖xf7+ ♖xf7 2. ♔xf7 ♔h8 (2. ... ♔h6? 3. ♔f6 1-0) 3. ♔f6 ♔g8 4. ♔xf5 ♔f7 ½-½
9) 1. ... ♘e6+ 2. ♔e5 ♘xd4 3. ♔xd4 1-0 (3. cxd4? Kc7 ½-½)

(4-2)
1) d7 1-0
2) ♔d5 1-0
3) ♔c4 ½-½
4) ♔d3 ½-½
5) ♔d1 ½-½
6) ♔g6 or ♔f5 1-0, but not 1. ♔f6 ♔f8 ½-½

(4-3)
1-0 / ½-½
1) 1-0 (1. ♔e6 ♔d8 2. d6 ♔d8 3. d7)
2) ½-½ (1. ♔e5 ♔e7)
3) 1-0 (1. ♔b6 or 1. ♔c5; 1. ♔c6? ♔c8)
4) ½-½ (1. ♔c3 ♔c5)
5) 1-0 (1. ♔f5 ♔e7 2. ♔e5)

35: Pawn endings: key squares: B
1) 1. ... d6 2. ♔d5 dxc5 3. ♔xc5 1-0
2) 1. c4 ♔e7 (1. ... ♔c7 2. c5) 2. e5 dxe5 3. ♔xe5 1-0
3) 1. ... ♔a7 2. ♔xb5 ♔a8 3. ♔a6 ♔b8 (3. ... b5 4. c7) 4. ♔xb6 ♔c8 5. c7 1-0
4) 1. ♗xd5 cxd5 2. ♔c6 d4 3. ♔xb5 ♔c7 4. ♔c5 (or 4. ♔c4 d3 5. ♔xd3 (5. cxd3? ♔c6 ½-½) 4. ... d3 5. cxd3 ♔d7 6. ♔d5 1-0
5) 1. ... ♖xf5 2. ♖f2 ♖f7! (2. ... ♖xf2? 3. ♔xf2 ♔f7 4. ♔f3 ♔f6 5. ♔g4 ♔g6 6. g3 1-0) 3. ♖xf7+ ♔xf7 4. ♔f2 ♔f6 of ♔g6 ½-½
6) 1. ♖xd8+ ♔xd8 2. ♔d6 (2. ♔d5? f4 3. gxf4 ♔d7 ½-½) 2. ... ♔e8 3. ♔e5 f4 4. ♔xf4 1-0
7) 1. ... ♔a6 2. ♔c5 (2. b4 ♔b5 3. ♔e5) 2. ... ♔xa5 3. b3 (3. b4+? ♔a4; 3. ♔xc6 ♔b4 ½-½) 3. ... ♔a6 4. ♔xc6 1-0 *(Prokes, 1946)*
8) 1. ... exf4 2. ♕xf4+ ♔e7 ½-½ (2. ... ♕xf4+? 3. ♔xf4 ♔e7 4. ♔e5 ♔d7 5. ♔d5 1-0)
9) 1. f4 gxf4+ 2. ♔xf4 g6 3. ♔g5 gxh5 4. ♔xh5 1-0

Mate in two
(4-2)
1. ♘b4 ♔c1 2. ♕c2#
1. ♕b8 ♔a3 2. ♕b3#
1. ♕b2 ♔f1 2. ♕f2#
1. ♕f2+ ♔h1 2. ♘g3#; 1. ... ♔h3 2. ♕g3#
1. ♕b2 ♔e1 2. ♕e2#
1. ♕f2 ♔a1 2. ♕b2#

(4-3)
1. ♕a7 ♔e8 2. ♖g8#
1. ♖a2 ♔f1 2. ♕h1#
1. ♕b1 ♔a4 2. ♖a2#
1. ♕b5 (1. ♕b6? stalemate) 1. ... ♔a7 2. ♖a4#
1. ♕b5 (1. ♕b6? stalemate) 1. ...♔a7 2. ♔b4#
1. ♖b4+ ♔a3 2. ♕b3# 1. ... ♔a1 2. ♕a6#

36: Mix: C
1) 1. ♗xc7 ♖d7 2. ♖ab1 (2. ♖fb1? ♕xf2+) (the pin)
2) 1. ... ♕d8 2. ♗b3 c6 (the pin: attack on a pinned piece)
3) 1. ♘e2 ♕a5 (double attack: queen)
4) 1. ♖c7 ♖f7 2. ♗c4 (the pin)
5) 1. e5 ♘e8 2. e6 (the pin: attack on a pinned piece)

6) 1. ♘b3 ♗a4 2. ♔c2 ♖xd4 (the pin: a pinned piece is not a good defender 2x)
7) 1. ♘xh5 ♕g4 2. ♕d1 (2. ♕e2 ♕xe2 3. ♖xe2 ♖f1+; 2. ♖h1 ♕xh5 3. ♖xh5 (protecting by X-ray protection)
8) 1. ♘f3 ♖fe8 2. e5 (the pin: attack on a pinned piece)
9) 1. ♕c1 ♖h8 2. ♕b2 (the pin: attack on a pinned piece)
10) 1. ♗xg5 ♖xg5 2. ♕f4 (Double attack: queen)
11) 1. ♗e3 f4 2. h6 (threaten mate)
12) 1. f5 ♖xe5 2. ♘f1 ♕e4 3. dxe5 (unpinning)

37: Double attack: yes or no (👍 or 👎): A

1) no 1. ... ♘xe4 2. ♕d5? ♘c3+
2) no 1... ♕xb2 2. ♕a8+ ♗c8 3. h3 (3. ♕f3 ♕b1+) 3... ♕xf6
3) no 1. ♖xb7 ♕d5 2. ♗b3 (2. ♗e4 ♕c5+)
4) no 1. ♘xb6 ♗d4+? 2. ♖xd4 ♖xd4 3. ♘xa8
5) yes 1. ♖xe4 ♕d3 2. ♖e5 (2. ♖f4 ♘xf4) 2... ♘xe5
6) Drawing
7) no 1. ... b5 2. ♘b6 ♕xd4+ 3. cxd4 ♖xc2
8) yes 1. ♖xb5 ♕f1 (1. ... ♕a4? 2. ♗e2 or 2. ♕b4 or 2. ♖b4)
9) no 1. ... ♘xa5 2. ♕h5 ♘e5

38: The pin (👍 or 👎): A

1) yes 1. ... ♘xe5 2. ♗f4 ♘xg4+ (2. ... ♘xf3+ 3. ♖xf3) 3. fxg4
2) no 1. ♘xd4 ♕d7 (1. ... ♕d6 2. ♕xf5) 2. ♕xf5 ♕xd4 3. ♕c8#
3) no 1. ... ♘f5 2. ♗g4 ♕a4+ (2. ... ♘e3+ 3. ♘xe3) (2. ... ♘d4+ 3. ♕xd4)
4) no 1. ... ♗xc5 2. ♖dc2 ♗a3+ (2. ... ♗d4+? 3. ♘xd4) 3. ♔b1 ♗xc1
5) yes 1. ... ♗xc5 2. ♘b3 ♗d4+ 3. ♘xd4
6) no 1. ... ♗xc5 2. ♖c1 ♗xe3 3. ♖xc6 ♖d1#
7) no 1. ♖e2 ♖e8 2. ♗xc5 ♖xe2 3. ♖d8+
8) no 1. ♖e2 ♖e8 2. ♗xc5 ♖xe2 3. ♖d8+ ♔g7 4. ♗f8+
9) yes 1. . ... ♖xd3 2. ♕e2 ♖xa3 3. ♕a6+ ♕a7 4. ♕c8+

39: Eliminating the defence (👍 or 👎): A

1) yes 1. ♕xd4 ♘xe5
2) no 1. ... ♘xc3 2. ♗xf6 ♘e2+
3) no 1. ♕xd3 ♖xe5 2. ♕d8+ (2. ♕xb3 ♖e1+) 2. ... ♔f7 3. fxe5
4) yes 1. ... ♖xa3 (1. ... ♗xa3 2. ♖e3+) 2. ♖xd6 ♖xb3 3. ♖xd7
5) no 1. ... ♖xa3 2. ♖xd6 ♖xb3 3. ♖xd7 (3. ♖e6+ ♔f7) 3. ... ♖b1+
6) yes 1. ... ♖xb4 2. ♗xc6 ♖xb1 3. ♖xb1
7) yes 1. ... ♕xd5 2. ♖xf6 ♕xd4 3. ♖xf8+
8) no 1. ... ♕xd5 2. ♖xf6 ♖xf6 (2. ... ♕xd4 3. ♖xf8+)
9) no 1. ... ♘xf4 2. ♖xf4 ♗xf4

40: Eliminating the defence (👍 or 👎): B

1) no 1. ... ♗xd3 2. ♗xe5 ♗xe5 3. ♖xd3 ♗xa1
2) yes 1. ♘xe4 f5 2. ♖xg6+ (2. ♘c3 ♖xg3) 2. ... fxg6
3) yes 1. ... ♖xb3 2. ♗xd5 ♖xb1 (2. ... cxd5 3. ♖xb3) 3. ♗e4+
4) yes 1. ... ♕xc4 2. ♗xd6 ♕xd4 (2. ... ♕f1+ 3. ♖d1) 3. ♗xf8+
5) no: 1. ♖f1 ♖xe3 2. ♖b8+ (2. ♖xf7? ♖xb3) 2. ... ♔h7 3. ♖xf7
6) yes: 1. ... ♖xb2 2. ♘xc4 ♖xb1 3. ♘d2+
7) yes: 1. ... ♘xe4 2. ♘xc6 ♘xf2 3. ♘e5+
8) Drawing
9) yes 1. ♖xe2 ♖xg3 2. ♖xe5 ♖xg2 3. ♔xg2 fxe5

41: Mate: visualising: E

1) 1. ♔e1 ♔h5 2. ♘f4+ ♔h4 3. ♕h3#
   1. ♔e1 ♔h5 2. ♘f4+ ♔h6 3. ♕g6#
   1. ♔e1 g4 2. ♘g1 g3 3. ♘f3#
   1. ♔e1 g4 2. ♘g1 ♔g3 3. ♕f2#
2) 1. ♕g7 ♔xd1 2. ♔d3 ♔c1 3. ♕a1#
   1. ♕g7 ♔f2 2. ♕g1+ ♔e2 3. ♕e1#
   1. ♕g7 f2 2. ♕g4+ ♔xe3 3. ♖d3#
   1. ♕g7 ♔xe3 2. ♕d4+ ♔e2 3. ♕d2#
3) 1. ♗h3 ♔d7 2. ♘f4+ ♔c6 3. ♖c8#
   1. ♗h3 ♔d7 2. ♘f4+ ♔e7 3. ♘g6#
   1. ♗h3 ♔d5 2. ♘f4+ ♔e5 3. ♖f5#
   1. ♗h3 d5 2. ♖d8 d4 3. ♗g2#
4) 1. ♗c4 ♔f5 2. ♕g3 ♔e4 3. ♗d3#
   1. ♗c4 ♔f5 2. ♕g3 ♔f6 3. ♕g5#
   1. ♗c4 ♔xh4 2. ♕f4+ ♔h3 3. ♗f1#
   1. ♗c4 ♔xh4 2. ♕f4+ ♔h5 3. ♗f7#
5) 1. ♗b4 ♗xb4 2. ♘b3 a3 3. ♘d4#
   1. ♗b4 ♗xb4 2. ♘b3 axb3 3. a4#
   1. ♗b4 ♗xb4 2. ♘b3 ♗e1 3. ♕b7#
   1. ♗b4 ♗xb4 2. ♘b3 ♗c5 3. ♕a5#
6) 1. ♕h6 e4 2. ♕h5+ ♔f4 3. ♗h6#
   1. ♕h6 ♔g4 2. ♕g6+ ♔f4 3. ♗h6#
   1. ♕h6 ♔g4 2. ♕g6+ ♔h4 3. ♗f6#
   1. ♕h6 ♔e4 2. ♕g5 ♔d4 3. ♕f4#
7) 1. ♘c7 a3 2. ♘a8+ ♔a6 3. ♕xa3#
   1. ♘c7 b4 2. ♕d6+ ♔a7 3. ♘b5#
   1. ♘c7 ♔a7 2. ♕c5+ ♔b8 3. ♘a6#
   1. ♘c7 ♔a5 2. ♕c5 a3 3. ♕xb5#
8) 1. ♕e6 ♔xb5 2. ♕d5+ ♔a4 3. ♘b6#
   1. ♕e6 ♔xb5 2. ♕d5+ ♔a6 3. ♘b4#
   1. ♕e6 ♖a8 2. ♕b6+ ♔a4 3. ♘c5#
   1. ♕e6 ♔a4 2. ♕c4+ ♔a5 3. ♕b4#

42: Mate: visualising: F

1) 1. ♖c6 ♔b5 2. ♘d4+ ♔a4 3. ♖c4#
   1. ♖c6 ♔b4 2. ♖b6+ ♔a4 3. ♘c5#
   1. ♖c6 b5 2. ♘c5+ ♔b4 3. a3#
   1. ♖c6 b6 2. ♖c4+ ♔b5 3. ♘c7#
   1. ♖c6 bxc6 2. ♔c4 c5 3. ♘xc5#
2) 1. ♘a1 a4 2. ♘c2 ♔b3 3. ♕f7#
   1. ♘a1 c2 2. ♕b8 ♔xa1 3. ♕b2#
   1. ♘a1 ♔a3 2. ♕f7 c2 3. ♕b3#
   1. ♘a1 ♔a3 2. ♕f7 a4 3. ♘c2#
   1. ♘a1 ♔a3 2. ♕f7 ♔b4 3. ♕b3#
3) 1. ♗e1 d4 2. ♗g3+ ♔d5 3. ♕c6#
   1. ♗e1 ♔d4 2. ♕f5 ♔e3 3. ♕e5#
   1. ♗e1 ♔d4 2. ♕e8 ♔c4 3. ♕a4#
   1. ♗e1 ♔d4 2. ♕f5 ♔c4 3. ♕d3#
   1. ♗e1 ♔f4 2. ♗g3+ ♔e3 3. ♕d3#
4) 1. ♘e3 ♔g5 2. ♕g4+ ♔xh6 3. ♘f5#
   1. ♘e3 ♔e5 2. ♕f1 ♔e4 3. ♖e6#)
   1. ♘e3 ♔g3 2. ♖h4 ♔xh4 3. ♕g4#

1. ♘e3 ♔g3 2. ♖h4 h6 3. ♘f5#
1. ♘e3 ♔e4 2. ♖e6+ ♔f4 3. ♕g4#

5) 1. ♔e7 ♔e5 2. ♕e3 d4 3. ♕g3#; 3. ♘f3#; 3. ♘f7#
1. ♔e7 ♔e5 2. ♕e3 dxe4 3. ♕xe4#
1. ♔e7 ♔c5 2. ♘e6+ ♔c6 3. exd5#
1. ♔e7 dxe4 2. ♘e6+ ♔e5 3. ♕b5#
1. ♔e7 g6 2. ♔d6 dxe4 3. ♘e6#

6) 1. ♘f8 f4 2. ♕e2+ ♔d5 3. ♕e6#
1. ♘f8 ♔e5 2. ♕c4 g4 3. ♕d4#
1. ♘f8 ♔e5 2. ♕c4 f4 3. ♕e6#
1. ♘f8 ♔d5 2. ♕d3+ ♔c6 3. ♕d7#
1. ♘f8 ♔d5 2. ♕d3+ ♔e5 3. ♕d4#

43: Stalemate: yes or no?: A

1) 1. ♗g5+ ♘xg5 2. ♖xg6+ ♔xg6 (yes)
2) 1. ♖a5 ♕xa5 2. ♕g6+ ♔xg6 3. Kf8 (no)
3) 1. ♖a5 ♕xa5 2. ♕f5+ ♕xf5 (2. ... ♔h6 3. ♕f6+ ♕xf6) (yes)
4) 1. ♘b4 e1♕ 2. ♖e8+ ♔xe8 3. ♔a4 (no)
5) 1. ♘b4 e1♕ 2. ♖e8+ ♔xe8 (yes)
6) 1. ♘b4 e1♕ 2. ♖e8+ ♘xe8 3. ♔xb5 (no)
7) 1. ♔b5+ ♕xa3 2. ♖e8+ ♗xe8 3. ♔b6 (no)
8) 1. ♔b5+ ♕xa3 2. ♖e8+ ♗xe8 (yes)
9) 1. ♗d4+ ♗xd4 2. ♕xh3+ ♕xh3 (yes)

Blind / Stalemate: yes or no?

1) no 2. ♔e1
2) no 2. ♔g1
3) yes
4) no 2. hxg6 e.p.
5) yes
6) yes
7) yes

44: Draws / Stalemate: A

1) 1. d8♕ ♗f6+ 2. ♔a6 ♗xd8 stalemate
2) 1. ♔b2 ♘c5 2. ♔a3 ♗xc3 stalemate
3) Drawing
4) 1. g6 ♖a1 2. ♕f2+ ♘xf2 stalemate
5) 1. b8♕ ♖xb8+ 2. g8♘+ ♔g6 stalemate
6) 1. ♘g6+ ♖xg6 2. ♕h2+ ♕xh2 stalemate
7) 1. bxc5+ ♕xc5 2. b4 ♕xg1 stalemate
8) 1. ♔a3 ♕b4+ 2. ♔xb4 a5+ 3. ♔xa5 (3. ♔b5) stalemate
9) 1. ♖a7+ ♔d6 2. ♖a8 ♕xa8 stalemate
10) 1. e8♕+ ♘e6+ 2. ♔d6 ♕xe8 stalemate
11) 1. ♖d8+ ♕g8 2. ♔h6 ♕xd8 stalemate
12) 1. ♗c4 ♖xd7 2. ♗e6+ ♗xe6 stalemate

45: Draws / Stalemate: B

1) 1. ♗g3+ ♔xg3 2. ♘c6 ♕xb7 stalemate
2) 1. h8♕ e1♕ 2. ♕c3+ ♕xc3 stalemate
3) 1. ♗xh2 ♖xh2 2. ♖g2 (2. ♖xb4+? ♔a6) 2. ... ♖h8 3. ♖g8 ♖h7 4. ♖g7 stalemate
4) 1. ♔xf3 ♘f4 2. ♖d4+ ♔xd4 (2. ... ♔c5 3. ♖xf4 gxf4 4. ♔xg2 ♔d5 5. ♔f3 ♔e5 6. ♔f2) stalemate
5) 1. e7 ♔xe7 2. ♗c6 ♗xc6 stalemate

6) 1. d8♕ g5+ 2. ♕xf6 (2. ♔h7 ♕g7+ 3. ♔xg7) stalemate
7) 1. d8♕ ♖d7+ 2. ♗d6 ♖xd8 stalemate
8) 1. ♗d5+ ♔g1 2. ♔xc8 (2. ♗xh1? ♘d6+) 2. ... ♕xd5 stalemate
9) 1. ♔f6 g5 (1. ... ♔xh7? 2. g5) 2. ♗g8 (2. ♔f5 ♔xh7 3. ♔xg5 ♔g7; 2. ♗b1) stalemate
10) 1. ♗d5+ ♕xd5 (1. ... ♔f8 2. ♖h8+) 2. ♖h8+ (2. ♖xd5 ♗xe4+ 3. ♖f5 a3) 2. ... ♔xh8 stalemate
11) 1. ♘xg4 ♔xg4 2. ♗g2 (2. ♗f3+? ♔xf3) 2. ... hxg2 (2. ... ♗xg2) stalemate
12) 1. ♘xc6+ ♕xc6 2. ♕xg8+ ♖xg8 stalemate

46: Avoiding stalemate: A
1) 1. c7 ♖xc7 2. g5 ♔f7
2) 1. g7 (1. ♗f7) 1. ... ♖xg7 (1. ... ♖f7+ 2. ♗xf7) 2. ♗b2+ ♔xb2 3. ♔xg7
3) 1. g8♕+ ♔xg8 2. f7+ ♔h7 3. f8♕ ♖b1#
4) 1. ♕g3+ ♗b3 2. ♕c3 bxc3 3. ♗c5#
5) 1. ♕b5+ cxb5 2. axb5 ♗c7 3. ♔xa7
6) 1. ♗xd3 exd3 2. g6 ♔b4
7) 1. ♔c2 g6 2. ♗f5 gxf5 3. g6 f4 4. g7 f3 5. g8♕
8) 1. ♔xh2 ♗d2 2. ♔g3 (2. b8♕? ♗f4+ 3. ♕xf4 stalemate; 2. ♗g6+? ♔g5)
9) 1. ♖b4 (1. ♖e1? b1♕) 1. ... b1♕ 2. ♖ab5
10) 1. ♕xe5 ♕d6 2. ♗b6+ ♔xb6 (2. ... ♕xb6 3. ♕a1#) 3. ♕xd6+
11) 1. ♕f1+ ♕xf1+ 2. ♗xf1 (2. ♔xf1? h3) 2. ... h3 3. ♖g2 hxg2 4. ♗xg2#
12) 1. ♗g6 f5 (1. ... f6 2. ♗xh5 g5+ 3. ♔g4) 2. ♗xf5 g5#

47: Discovered attack / which front piece?: A
1) ♘d5 1. ♘f6+ wins the queen
♖d5 1. ♖d8+ ♘xd8
2) ♖e5 1. ♖e8+ wins the queen
♘e5 1. ♘c6+ ♕xb2
3) ♗g1 1. ... ♗d4 wins the queen
♘g1 1. ... ♘f3+ / 1. ... ♘e2+ 2. ♕xa1
4) ♘d6 1. ... ♘e4+
♗d6 1. ... ♗f4+ 2. ♘xf4
5) ♗d6 1. ♗e5+ wins
♘d6 1. ♘f5+ ♗xf5
6) ♘c5 1. ♘e6+ wins
♗c5 1. ♗d4+ ♗e5
7) ♘b2 1. ♘d3+ wins
♙b2 1. b4+ cxb3 e.p.
8) ♘c2 1. ♘d4+ wins
♗c2 1. ♗f5+ gxf5+
9) ♘e4 1. ♘f6+ wins
♗e4 1. ♗xg6 ♖xe1+

48: Discovered attack: A
1) 1. ♕h8+ ♘b8 2. ♘b5 (2. ♘xe6? ♕b6)
2) 1. ... ♘xe4 2. ♖e1 ♘g5 (2. ... ♘d2? 3. ♗xd2)
3) 1. ♖xf2 ♖xf2 2. ♘f6 (2. ♘f4? ♗g4)
4) 1. ♖xe2 ♖xe2 2. ♘e7! (2. ♘e3? ♗c8)
5) 1. ♘xd4 ♕xd4 2. ♗f5! (2. ♗a6? ♕g4)
6) 1. ♖xf6 ♕xd5 (1. ... ♕e7 2. ♖g6) 2. ♖f3 (2. ♖f8+ ♔xf8)
7) 1. ♖b1 ♕xa3 2. ♗h7+ (2. ♗c4+? d5)
8) 1. ♘xg3 ♕xg3 2. ♗e5! (2. ♗f2? ♕c7) 2. ... ♘xe5? 3. ♖d8#
9) 1. cxb4 ♖xb4 2. ♘b5+! (2. ♘e6+? ♘xe6)

Discovered attack

(4-1)

1) 1. ♔b5#
2) 1. ♖d8#
3) 1. ♘h7
4) 1. ♘f3#
5) 1. ♘f3 ♖g2 2. ♖b1+
6) 1. ♘c6 ♖c8 2. ♘a7

(4-2)

1) 1. ♗b7#
2) 1. ♔g6#
3) 1. ♗c6#
4) 1. ♘c3#
5) 1. ♘e6
6) 1. b8♘#

49: Discovered attack: B

1) 1. ♘xf6+ ♗xf6 2. ♖g5+ (2. ♖b8+ ♖xb8 3. ♕xd7 ♖b1+) 2. ... hxg5 3. ♕xd7 ♖d8 4. ♕a4
2) 1. ♗xe4 ♗b7 2. ♗d5+ (2. ♗xh7+? ♖xh7+) 2. ... ♕xd5 (2. ... ♗xd5 3. ♕xe5) 3. ♕e8#
3) 1. ♘xd4 ♘f5 2. ♘e6 (2. ♘c6? ♖e8) 2. ... ♖xd3 3. ♘xd8+
4) 1. ♘xg6+ (1. ♗d3 ♘e5 2. ♗xa6 g5) 1. ... hxg6 2. ♗d5 (2. ♗d3 ♕xe2 3. ♗xe2 ♖a8)
5) 1. ... ♔e6 2. ♔xc7 ♗d8+ (2. ... ♗d6+? 3. ♔c8)
6) 1. cxd4 ♕xa3 2. ♗g8+ (2. ♗c2+ ♘de4 (2. ... ♘f5)) 2. ... ♔xg8 3. ♕xa3
7) 1. ♘xf7 ♖xf7 2. ♗a6! (2. ♗xg6? ♖g7!)
8) Drawing
9) Drawing

Mate in two

(4-1)

1) 1. ♗a5 ♔xa5 2. ♕a7##
2) 1. ♗f6 ♔a3 2. ♖a5#
3) 1. ♗h5 ♔e7 2. ♕d6#
4) 1. ♗f4 ♔f6 2. ♕f7#

(4-2)

1) 1. ♘h5+ ♔g8 2. ♕g7#; 1. ... ♔h7 2. ♕g7#
2) 1. ♗e3 ♔e5 2. ♕e6#; 1. ... ♔f7 2. ♕g6#
3) 1. ♔f5 ♔h8 2. ♘f6#; 1. ... ♔f7 2. ♕f8#
4) 1. ♔c3 ♔a1 2. ♔c2#; 1. ... ♔xc1 2. ♕g1#
5) 1. ♔d3 ♔a2 2. ♕b2#; 1. ... ♔c1 2. ♕h1#
6) 1. ♗a4 ♔d3 2. ♗b5#; 1. ... ♔e1 2. ♕c1#
7) 1. ♔f6 ♔g8 2. ♖d8#; 1. ... ♔♗h6 2. ♖h3#
8) 1. ♗c2+ ♔e3 2. ♕f2#; 1. ... ♔g4 2. ♗d1#

50: Discovered attack: C

1) 1. ♗xg6 ♗xg6 2. ♘f4! (2. ♘e7? ♗d3!)
1) 1. ♖xf6 ♕d5 2. ♖xc6 (2. ♖f3? f6 3. ♗xf6 ♖d7; 2. ♖d6? ♕g2#)
1) 1. b4 (1. ♖g3+? ♔f6 2. b4 ♘c4 3. bxa5 ♘xd2) 1. ... ♕xb4 2. ♖g3+ (2. ♖xc7+? ♘f7)
1) 1. ♖ad1 c5 2. ♘f5 (2. ♘b5? ♗xb5+) 2. ... ♖xd2 3. ♘xd6+ 0-1
2) 1. ... ♕e8 2. ♕xc7 ♗d6 (2. ... ♗d8? 3. ♕c5)
3) 1. ♗d3 ♔h8 2. ♘xc5 (2. ♘f6? ♕xd3)
4) 1. ... ♖d2 2. ♕xd2 ♘e2+ (2. ... ♘xh3+? 3. ♗xh3+)

5) 1. ♖xb2 ♗xb2 2. ♗c3 (2. ♗c1? ♗f6)
6) 1. ♔h1 ♕xe5 2. ♗c6 (2. ♗xg6+? hxg6#)

Blind games

(4-2)

1) 4. ... g5
2) 4. ... ♕h4#
3) 4. f3
4) 4. ... c4
5) 4. ♗xb7
6) 4. ♘f6#

(4-2)

1) 5. ... c4
2) 5. ... ♗g3#
3) 5. ... ♕f6
4) 5. dxe5
5) 5. ... ♗g4
6) 5. ... ♕h4#

51: Mix: D

1) 1. ♗b4 ♘xb4 2. ♖e5+ ♔f6 3. ♖d6# (mate in three)
2) 1. ♗h6 ♕h3 2. ♕a2+ ♔h8 3. ♕a8+ (defend against mat)
3) 1. ♖xc6 ♗xa4 2. ♖c8+ ♔e7 3. ♘xa4 (unpinning)
4) 1. ... ♖h6 2. ♗c5+ ♔g8 3. ♕xh6 (the pin: a pinned piece is not a good defender)
5) 1. ... ♔g7 2. ♖b8 ♖xg5+ 3. fxg5 ♗g3# (defend against mat)
6) 1. ♕xe4 ♖e8 2. ♕xg6+ (2. ♕xe8? ♖xc4+) (the pin: a pinned piece is not a good defender)
7) 1. ♖d3 e2 2. ♖h3 e1♕ 3. g4# (defend against a passed pawn)
8) 1. ♗h4 ♗d6 2. ♗g3 ♕e7 3. ♕xe7 (trapping thanks to a pin)
9) 1. ... d1♕ 2. ♗xd1 e2 3. ♖d5 (3. ♗xe2 stalemate) 3. ... e1♕ (3. ... exd1♕ 4. ♖xd1) 4. ♖h5# (defending against a passed pawn and avoiding stalemate)

Blind Mix

(4-2)

1. b8♕+ (defend against mat)
1. c8♖ (1. c8♕ stalemate) 1. ... ♔a6 2. ♖a8# (mate in two)
1. ♖d1+ ♔c7 2. ♔xe8 (eliminating the defence: chasing away+material)
1. ♘d4 c1♕ 2. ♘e2+ (defend against a passed pawn)
1. ♕f3+ ♔g1 2. ♘h3+
1. ♘d2+ ♔c1 2. ♖xh2 (avoiding stalemate)

(4-3)

1. ♕e4# (mat in een)
1. ♔d6 and 2. ♖g8# or 2. ♔xc5 (double attack: 2 pieces)
1. ♔f1 (getting out of check)
1. ♕xf3 (avoiding stalemate)
1. ♖e3+ ♔xe3 (forcing stalemate)
1. ♗c2 ♕xc2 (forcing stalemate)

52: Mix: E

1) 1. ... ♗f7 2. ♘g5 ♘d8 (2. ... ♗xd5 3. ♖e8#) 3. ♖e8# (discovered attack)
2) 1. b8♕+ ♔g7 2. ♕b7+ ♔g6 3. ♕xd5 (defend against perpetual check)
3) 1. ♖c8 ♗xd5+ 2. ♖xe8+ ♔f7 3. ♖e4 (pawn ending: key squares!)

4) 1. ♕c8+ ♗d8 (1. ... ♕d8? 2. ♕xe6+) 2. ♗g5 ♔f7 3. ♕xd8 (3. ♗xd8? ♕d2+) (the pin: attack on a pinned piece)
5) 1. ♖c1 ♗d7 (1. ... ♖f8? 2. ♖c8+) (defend against mate)
6) 1. g4 ♖g3+ (1. ... ♖xg4) 2. hxg3 ♔e2 (2. ... fxg3) 3. gxf4 gxf4 4. g5 f3 5. g6 (avoiding stalemate)
7) 1. ♘e4+ ♔g4 2. ♘f2+ (2. ♔g2 ♘xf6) 2. ... ♔g5 3. h4# (mate in three)
8) 1. b8♕+ ♔g7 2. ♕a7+ ♔h6 3. ♕a2 (defend against perpetual check)

Passed pawn: stopping or cashing in?
1) 1. ♖f5+ and 2. ♔g4
2) 1. ♔f2 (1. ... ♖xg2 stalemate)
3) 1. ♗e8 and 2. ♗c6(+)
4) 1. ♔g6 and promotie
5) 1. ♗e2+ ♔c1 2. ♗d3
6) 1. ♔g6 (trapping)
1) 1. ♔d3
2) 1. ♗d6+ and 2. ♗h2
3) 1. ♔a6 and 2. ♗b7(+)
4) 1. ♔c2
5) 1. ♔c4 and 2. ♗d4
6) 1. ♔b2 and 2. b8♕

53: Perpetual check (♘ or ♞): A
1) no 1. ♔g1 ♕xb2 2. ♕c8+ ♔h7 3. ♕f5+ g6 4. ♕f7+ ♕g7
2) yes 1. ♘xe8 d1♕ 2. ♘f6+ ♔f8 (2. ... ♔h8? 3. ♖h7#) 3. ♘h7+ ♔e8 4. ♘f6+ ♔f8
3) yes 1. ... ♗f6+ (1. ... g5+? 2. ♘xg5 hxg5+ 3. ♔g4) 2. ♘xf6+ ♕xf6+ 3. ♔h3 ♕f1+ 4. ♔h4 (4. ♕g2?? ♕f5+) 4. ... ♕f6+ ½-½
4) yes 1. ♕xd8 ♕xf3+ 2. gxf3 ♘h2+ 3. ♔g1 ♘xf3+ 4. ♔f1 (4. ♔h1? ♖h2#) 4. ... ♘h2+ ½-½
5) yes 1. ♖e8+ ♔h7 2. ♖h8+ ♔xh8 3. ♕e8+
6) no 1. ♕xg7+ ♔xg7 2. ♖g3+ ♔h6 3. ♖h3+ ♔g6 4. ♖g3+ ♔h5 5. ♖h3+ ♔g4
7) yes 1. ♖xc7 b2 2. ♖c8+ ♔f7 3. ♖c7+ ♔f8 (3. ... ♔f6 4. ♖e6#) 4. ♖c8+= ½-½
8) no 1. ♕c5+ ♕c2 2. ♕g1+ d1♘ (2. ... d1♕? 3. ♕e3+ ♕cd2 4. ♕c5+ ♕1c2 5. ♕g1 =)
9) yes 1. ♕d7+ ♔g6 2. ♕e8+ (2. ♕d3+? f5 3. ♕d6+ ♔h7) 2. ... ♔h6 (2. ... ♔f5 3. ♕e4#) 3. ♕h8+

54: Route planner / Mate: A
1) 1. ♕g5 ♔e8 2. ♕g7 ♔d8 3. ♕d7#
2) 1. ♕b3 f2 2. ♕a3+ ♔b1 3. ♗e4#
3) 1. ♘b4 ♔f6 2. ♘d5+ ♔f5 3. g4#
4) 1. ♗a2 ♔xa2 2. ♔c2 ♔a1 3. ♖xa3#
5) 1. exd8♘ ♔xd8 2. ♔e6 ♔e8 3. ♖c8#
6) 1. ♕a1 b2 2. ♕a8 b3 3. ♕h1#
7) 1. ♗d2 c3 2. ♗b5 cxd2 3. c4#
8) 1. a4 ♔a7 2. ♕c7 ♔a6 3. b8♘#
9) 1. ♘c5 ♔d5 2. c4+ ♔d4 3. ♖e4#

Blind / Mate planner
(4-1)
1) 1. ♔f4 2. ♕g5#
2) 1. ♔f5 2. ♕h2#
3) 1. ♘g4 2. ♕f1#
4) 1. ♕g6 2. ♖h1#

(4-2)
1) 1. ♘f3 2. ♕h3#

2) 1. ♗b3 2. ♕c1#
3) 1. ♕g6 2. ♗d6#
4) 1. ♔c1 2. ♕a5#

55: Route planner / Mate: B

1) 1. ♖d2 ♔b1 2. ♗f6 ♔c1 3. ♖d1#
2) 1. ♔c7 f6 2. ♔d8 ♔b7 3. ♕c8#
3) 1. ♔f3 e6 2. ♕d8 ♔f5 3. ♕f6#
4) 1. ♗g8 c2 2. ♖f7 ♔a2 3. ♖a7#
5) 1. ♖a8 ♔d7 2. ♔b8 ♔e8 3. ♔c7#
6) 1. ♘e2+ ♔e4 2. ♕f4+ ♔xd3 3. ♘c1#
7) 1. ♗b2 ♔xb4 2. ♔c6 ♔xa5 3. ♗c3#
8) 1. ♖f5 ♔d4 2. ♖e5 ♔xe5 3. ♕e4#
9) 1. ♕g6+ ♔d5 2. ♕a6 ♔e4 3. ♕e6#

Blind / Matplanner

(4-1)

1) 1. ♘e4 2. ♖h3#
2) 1. ♗f6 2. ♖d8#
3) 1. ♘d8 2. ♖c8#
4) 1. f8♘ 2. ♕h8#

(4-2)

1) 1. ♗d7 2. ♘e6#
2) 1. ♘d6 2. ♗f6#
3) 1. ♗c4 2. ♖a5#
4) 1. ♖g5 2. ♖h5#

(4-3)

1) 1. ♗e3 2. ♕a5#
2) 1. b8♘ 2. ♕g8#
3) 1. ♕a8 2. ♕h1#
4) 1. b8♘ 2. ♖a7#

56: Defending and refuting

right move	*wrong*	*wrong*	*wrong*
1) 1. ♖f3 ♕h4!	1. ... ♕g4+ 2. ♖g3	1. ... ♕h5 ♖g3+	1. ... ♕e6 2. ♗c4
2) 1. ♖d5 ♕c6!	1. ... ♕b4 2. ♖b5	1. ... ♕e7 2. ♖e5	1. ... ♕xe3? 2. ♖e5+
3) 1. ♖d4 ♕f8!	1. ... ♕xd4 2. ♘c6+	1. ... ♔xd4 2. ♘xe6+	1. ... ♕f6 2. ♘c6#
4) 1. ♖f5 ♕h4!	1. ... ♕e7 2. ♖xf7	1. ... ♕g6 2. ♗xf7	1. ... ♕d4 2. ♘b5+
5) 1. ♗xc6 ♗h4!	1. ... a1♕ 2. ♗e8#	1. ... ♗d2 2. h4	1. ... ♗f4 2. ♔xf4 a1♕ 3. ♗e8#)
6) 1. h4 gxh3!	1. ... gxh5 2. ♖2c6#	1. ... ♔xh5 2. ♖h7#	1. ... g5 2. ♖h7#)
7) 1. g3 ♕h3!	1. ... ♕g4 2. ♘f2	1. ... ♕d4 2. ♗b5+	1. ... ♕a4 2. ♗b5+) 2. ♘f2? ♕g2#
8) 1. ♖b4+ e4!	1. ... ♕xb4 2. ♘f3#	1. ... ♕d4 2. ♘f3#	1. ... ♔xg5 2. ♘e4+) 2. ♘f3+
9) 1. ♖h2 f1♘!	1. ... ♔h5 2. ♘xf2#	1. ... g1♕ 2. ♘xg1#	1. ... gxf4 2. ♘xf2+ ♔g5 3. ♖xg2+♔f5 4. ♖g1