Step 4

2 Test / Step 3: A

1) 1. ♕b4 threatens mate and win of a piece (double attack: queen)
2) 1. ... ♕d2+ 2. ♕xd2 ♖g6# (luring away + mate); 1. ... ♖g6+? 2. ♕xg6 hxg6 3. ♔xg6+ and wins.
3) 1. ♘g6 (trapping thanks to pinning)
4) 1. ... ♖e1+ 2. ♖xe1 ♕xd4+ (luring away + material); 2. ♔f2 ♖e2+
5) 1. ♕d4+ ♕f6 2. ♕xd7 ((luring away + material)
6) 1. ♖h5+ gxh5 2. ♕f6# (luring away+ mate)
7) 1. ♕xe8+ ♘xe8 2. ♘e6# (luring away+ mate)
8) 1. ♖f3+ exf3 2. ♕xg5 (discovered attack)
9) 1. ♘c6+ ♔a8 2. ♘xe7; 1. ... ♖xc6 2. dxc6 (double attack: knight)
10) 1. ... ♔g8 (1. ... ♖c7? 2. ♖xg7) (attack on a pinned piece)
11) 1. ♕h3 (1. ♕xh6? ♕xf6) 1. ... ♖c4 2. ♕xa3 (double attack: queen)
12) 1. h3 (1. ♕c2+ ♔h6) (forcing stalemate)

3 Test / Step 3: B

1) 1. ... ♘f4 (attacking a pinned piece)
2) Drawing
3) 1. ♘d6+ ♕xd6 2. ♗a6# (discovered attack)
4) 1. g3 ♖xf3 2. ♕xh6+ ♕h7 2. ♗xg7+ (attack on a pinned piece)
5) 1. ... ♘f3+ 2. ♕xf3 ♕e1+ (discovered attack)
6) 1. ♗d6 ♗xd6 2. ♕h8# (discovered attack)
7) 1. ... ♗a4 (trapping thanks to a pin)
8) 1. ♕c1 ♖xb5 2. ♖c8 (double attack: material + threat)
9) 1. ♖c6+ ♔f7 (1. ... ♔xd5 2. ♗g2#) 2. ♖xe5 (chasing away + material)
10) 1. ♘e5+ ♔e8 2. ♖xc8# (double check)
11) 1. ♖xf8+ ♔xf8 2. ♕d8# (mate in two: access)
12) 1. . ... ♕d5 (defend against mate)

4 Eliminating the defence / Interfering: A

1) 1. ♘f5+ followed by 2. ♖xh3.
2) 1. ♘c6+ bxc6 2. ♕xc5
3) 1. ♗b8 and the rook on a8 is trapped.
4) 1. ... ♘f4 (threatens 2. ... ♘e2+) 2. exf4 ♕xd6
5) 1. ... ♘f3+ 2. gxf3 ♕xd1+
6) 1. ... ♗e2 2. ♖fxe2+ ♖xe2 The rook ending is easily won, e.g. 3. ♖d7 ♖xg2 4. ♖xb7 g4 5. hxg4 h3 6. ♖xg7 ♔f2
7) 1. ... ♗b5 2. axb5 ♕xe2#
8) 1. ♘e4 with the threats 2. ♕xe8 and 2. ♖xe1. On 1. ... ♕xe4 follows 2. ♕f8+ and mate. Less good is 1. ♘e2 because after 1. ... ♕xf1+ 2. ♕xf1 ♘xe2 Black can play on.
9) 1. ♖g6 fxg6 2. ♕xg7#
10) 1. ... c4+ 2. ♔h1 ♕xb5
11) 1. ♗c8 with the threats 2. ♗xb7 and 2. ♖e8#. Wrong is 1. ♖c8+ ♖xc8 2. ♗xc8 ♖b1.
12) 1. ... ♖c1+ 2. ♗xc1 2. ♕b1#; 2. ♖xc1 ♕xd5

5 Eliminating the defence / Interfering: B

1) 1. ... ♗b3 2. axb3 ♘c2#
2) 1. ... ♗c1+ 2. ♔xc1 ♕xg1
3) 1. ... ♖c1+ 2. ♘xc1 ♕d1# or 2. ♖xc1 ♕xb7
4) 1. d5 (1. ♖g1+? ♖g5) 1. ... ♗f5 2. ♖g1+ ♔f6 3. ♖xg8
5) Drawing

6) Drawing
7) 1. ♖c6 dxc6 2. ♘xf6+; bad is 1. ♘c6? ♘xe4
8) 1. e6 fxe6 (1. ... ♗xe6 2. ♘xe6) 2. ♕xg4 (2. ... e5 3. ♘f5 or 3. ♘e6)
9) 1. ... ♘f3+ 2. ♔f1 ♖xf6; 2. ♖xf3 ♖xh6
10) 1. ♖d8+ ♗xd8 2. ♕e8# or 1. ... ♖xd8 2. ♕xb7
11) 1. ♗d6 ♕xb3 2. ♖f8#; 1. ... ♖xd6 2. ♕b8+; 1. ... ♘xd6 2. ♕xe6+
12) 1. g4 ♕xf3 2. ♖c8+ and mate

6 Eliminating the defence / Interfering: C
1) 1. c6 (1. ♖a2 e5) 1. ... bxc6 2. ♕xa4
2) 1. ... d3 2. ♕b3 ♗xe4
3) 1. ... c5 2. ♕b5 ♕xe7
4) 1. b4+ cxb3 (1. ... ♔b6 2. ♗xa4) 2. ♘c4#
5) 1. ♖f6 ♖e7 2. ♖f8#
6) 1. ♖d5 cxd5 (1. ... ♘e5 2. ♖xd4) 2. ♕e8#
7) 1. ♘a6 ♕xd5 (1. ... ♖xa6 2. ♕xa6) 2. ♖xa4
8) 1. ♖d8+ ♕xd8 (1. ... ♗xd8 2. ♕e8#) 2. ♕e6#
9) 1. ... ♗d4+ 2. ♔h1 ♕xd5
10) 1. ... ♘ce5 2. dxe5 (2. ♖fe1 ♕h2+ 3. ♔f1 ♕h4) 2. ... ♕h2#
11) 1. ... ♖g4+ 2. ♘xg4 ♕g3#
12) 1. ♕g6+ (1. ♗f6 ♘xf5) 1. ... fxg6 (1. ... ♖xg6 2. ♘xe7#; 1. ... ♘xg6 2. ♘xh6#) 2. ♘xh6

7 Double attack / Luring: A
1) 1. ... ♖d2+ 2. ♕xd2 ♘f3+
2) 1. ♕xf6+ ♔xf6 2. ♘e4+
3) 1. ♕xc6 ♕xc6 2. ♘xe7+
4) Drawing
5) Drawing
6) 1. ♗h6+ ♔xh6 2. ♘f7+; 1. ... ♔h8 2. ♘f7#
7) 1. ♕h8+ ♔xh8 2. ♘xg6+ and 3. ♘xe7
8) 1. ♖e8+ ♔xe8 (1. ... ♘xe8 2. ♕xd5) 2. ♘c7+
9) 1. ... ♕xg3+ 2. ♔xg3 ♘e4+ and 3. ... ♘xd2
10) 1. ... ♗g5 2. ♕xg5 (the queen is trapped) 2. ... ♘h3+
11) 1. ... ♖c1 2. ♕xc1 ♘e2+ (the rook on d2 is pinned)
12) 1. ♕xf8+ ♔xf8 2. ♘e6+ and 3. ♘xc7; 1. ♘e6? ♕xe7 or 1. ♗xg7 ♘xg7 2. ♕xg7+ and 3. ♘e6+ wins only an exchange.

8 Double attack / Luring: B
1) 1. ... ♖xg2+ 2. ♔xg2 ♕e4+ and 3. ... ♕xb1
2) 1. ... ♖xf1+ 2. ♔xf1 ♕d1+ 3. ♔g2 ♕xg4+
3) 1. ... ♗f4+ 2. ♗xf4 ♕xf4+ 3. ♔b1 ♕xh4
4) 1. ... ♖xg2+ 2. ♔xg2 ♕g5+
5) 1. ♘d7 ♖xd7 2. ♕h3+; 1. ♕h3+? ♔g7 2. ♘d7 ♕d6 3. ♘xb8 ♖h8
6) 1. d5 ♗xd5 2. ♕d4
7) 1. ♖xd6 ♖xd6 2. ♕e5
8) 1. ... ♖xd4 2. ♖xd4 ♕e5
9) 1. ♖xb7 ♖xb7 2. ♕a8+; 1. ♖xe7 ♕xg2#
10) 1. ... ♖xa5 2. ♖xa5 ♕e1+
11) 1. ♗xa6 ♖xa6 2. ♕d3
12) 1. b4 ♗xb4 2. ♕d4

9 Double attack / Luring: C
1) 1. ♖f8+ ♔xf8 2. ♗xg7+

2) 1. ♗b7+ ♔xb7 2. c6+
3) 1. ♕xh7+ ♔xh7 2. ♘xd6+; 1. ♘xd6? ♕e3+
4) 1. ... ♕xg2+ 2. ♔xg2 d4+; 1. ... d4 2. ♕d2 or 2. ♕c4+
5) 1. ... ♖xf1+ 2. ♔xf1 ♗h3+ (2. ... ♗d3+ 3. ♘xd3)
6) 1. ... ♘xd4 2. ♕xd4? ♘g4+
7) 1. ♖d7+ ♔xd7 (1. ... ♔e6 2. ♕d5#) 2. ♘xf6+
8) 1. ♖d4 ♕xd4 2. e6+
9) 1. ... ♖xf1+ 2. ♔xf1 ♗xg2+! (2. ... ♗b5+ 3. ♖xb5)
10) 1. ♖xd7 ♕xd7 2. ♘h6+
11) 1. ... ♕d3+ 2. ♔xd3 ♗xc6+
12) 1. ♗xc5 ♕xc5 2. axb4

10 Double attack / Luring: D

1) 1. ♘xe5 ♖xe5 2. f4 (double attack: pawn)
2) 1. ♖b8 ♖xb8 2. ♗xe5+ (double attack: bishop)
3) 1. ♖g8+ ♕xg8 2. ♖g2+ (X-ray check)
4) 1. ♖xd3 ♖xd3 2. ♗e4 (double attack: 2 pieces)
5) Drawing
6) 1. ♕c4+ ♕xc4 2. g8♕+ (X-ray check)
7) 1. ... ♘xc2 2. ♕xc2 ♗xd3+ (double attack: bishop)
8) 1. ... ♕xf1+ 2. ♔xf1 ♖xf5+ (double attack: rook)
9) 1. ♗e7 ♕xe7 2. f6 (double attack: 2 pieces)
10) 1. ♕xd7 ♕xd7 2. ♗xe6+ (double attack: bishop)
11) 1. ... ♖xc4 2. ♕xc4 ♗d5 (X-ray attack)
12) 1. ♗c4+ (1. ♖xe8? ♖xa6+) 1. ... ♔f8 2. ♖xe8+ ♔xe8 3. ♗b5+ (double attack: bishop)

11 Eliminating the defence / Blocking: A

1) 1. e7+ ♖xe7 2. ♕h8#
2) 1. ♕xd5+ ♕f7 2. ♖h8#
3) 1. ♕b8+ ♖xb8 2. ♘c7#
4) 1. ... ♖d1+ 2. ♕xd1 ♕f2#; 2. ♔xd1 ♕xf1#
5) 1. d6+ ♖xd6 2. ♗h4#
6) 1. ♕g8+ ♖xg8 2. ♘f7#; 1. ♘f7+ ♖xf7 doesn't win.
7) 1. ♖f8+ ♕xf8 2. ♖xf8+ ♖xf8 3. ♕xg6#
8) 1. ♕g7+ ♘xg7 2. ♘h6#
9) 1. ♖h3+ ♗xh3 2. g3#
10) 1. ... ♖f1+ 2. ♕xf1 ♕e3#; 2. ♔xf1 ♕e1#
11) 1. ... e5+ 2. dxe5 ♕d2#; 2. ♔xe5 ♕xg3+
12) 1. ♖f4+ ♔h5 2. ♖h4+ gxh4 3. g4#

12 Eliminating the defence / Blocking: B

1) Drawing
2) Drawing
3) 1. ♖h8+ ♘xh8 2. ♗h7#
4) 1. ♘e7+ ♘xe7 2. ♖xf8+ ♔xf8 3. ♖d8#
5) 1. ♖f8+ ♖xf8 2. ♘g7#
6) 1. c7+ ♕xc7 2. ♕f8#
7) 1. ... ♖g2 2. ♕d1 ♖xb2; 1. ... ♕xg2 ♕h5#
8) 1. ... ♖f2+ (1. ... ♕h5+ 2. ♔g1 ♕h1+ 3. ♔h1 ♖xf4+ 4. ♕xd5) 2. ♖xf2 ♕h5+ 3. ♔g1 ♕h1#
9) 1. ♕h7+ ♘xh7 2. ♘g6+ ♔g8 3. ♗d5#
10) 1. ... ♕g5+ 2. f4 ♕c5#
11) 1. ♕e6+ ♕f6 2. ♗h5#
12) 1. ♖e7 ♕xe7 2. ♕h7+

13 Eliminating the defence / Blocking: C

1) 1. b5+ cxb5 2. ♖a2#
2) 1. ♕e7+ ♘xe7 2. ♘f6#
3) 1. ♕f7+ ♗g6 2. ♕f3#
4) 1. ♕h7+ ♘xh7 2. ♖g6#
5) 1. ♗f6+ ♔f8 2. e7+ ♗xe7 3. ♗g7#
6) 1. ... ♕e2+ 2. ♗f3 (2. ♔f5 ♕e6#) 2. ...♕e6#
7) 1. ... ♗g2+ 2. f3 ♕e5#
8) 1. d4+ cxd4 (1. ... ♔xd4 2. ♕e3#) (1. ... ♘xd4 2. f4#) 2. f4#
9) 1. ♗f6+ (1. ♖xe5 f6) (1. ♗e4 f5) (1. ♖h3 f6) 1. ... ♗xf6 2. ♗e4
10) 1. ♖f8+ ♕xf8 2. ♗g6+ ♔g8 3. ♕h7#
11) 1. c5 ♗xc5 2. ♖a8+ ♔b6 3. ♖a6#
12) 1. ... ♖d1+ (1. ... ♕xf3 2. gxf3 ♗xf3+ 3. ♔g1 ♖d1+ 4. ♔f2) 2. ♗g1 ♕xf3

14 Thinking ahead / Mate: A

1) 1. ♕g5
   1. ... ♔a3 2. ♕b5 d5 3. ♕a6#
   1. ... b5 2. ♕c5 ♔a5 3. ♕a7#
   1. ... d6 2. ♕d5 b5 3. ♕a8#
2) 1. ♕a7
   1. ... a2 2. ♕e3+ ♔d1 3. ♕d2#
   1. ... ♗e2 2. ♕xa3+ ♔d1 3. ♕a1#
   1. ... ♗d3 2. ♕g1+ ♗f1 3. ♕xf1#
3) 1. b4
   1. ... cxb4 2. ♕g8 g2 3. ♕b3#
   1. ... ♔a2 2. ♕xa7 c4 3. ♕xa5#
   1. ... ♔xb4 2. ♕h8 c4 (2. ... ♔a3 3. ♕b2#) 3. ♕f8#
4) 1. e3
   1. ... ♗d3 2. e4 ♗xe4 3. f4#
   1. ... ♗c8 2. ♕g6 ♗f5 3. ♕d6#
   1. ... ♗e2 2. e4 ♗xf3 3. ♕f5#
5) 1. ♗d3
   1. ... ♔a2 2. ♕c2 b3 3. ♕b1#
   1. ... axb2 2. ♗c2+ ♔c4 3. ♕c6#
   1. ... ♔a4 2. ♕d5 b3 3. ♕b5#
6) 1. ♕f2
   1. ... g4 2. ♕f6 g3 3. ♗f3#
   1. ... ♔h6 2. ♕f7 g4 3. ♕g6#
   1. ... ♔g4 2. ♗f5+ ♔h5 3. ♕h2#
7) 1. ♔a6
   1. ... ♖xh4 2. ♕a2+ ♔b4 3. ♕a5#
   1. ... ♖a1 2. ♔a5 ♖c1 3. ♕a2#
   1. ... ♔b4 2. ♕b2+ ♔c5 3. ♕b6#
8) 1. ♔f2
   1. ... ♔h4 2. ♕e6 ♔h5 3. ♕h3#
   1. ... ♔h5 2. ♔g3 g4 3. ♕g6#
   1. ... ♔h3 2. ♗f5+ ♔h2 3. ♕h6#

15 Thinking ahead / Mate: B

1) 1. ♗e1
   1. ... ♔f4 2. ♗g3+ ♔e3 3. ♕d3#
   1. ... ♔d4 2. ♕e8 ♔c4 3. ♕a4#
   1. ... d4 2. ♗g3+ ♔d5 3. ♕c6#

2) 1. ♕e4
   1. ... ♔xh6 2. ♕g2 ♔h5 3. ♖xh7#
   1. ... ♔h5 2. ♖g7 ♔xh6 3. ♕xh7#
   1. ... ♔f6 2. ♕d5 ♔g6 3. ♖b6#
3) 1. ♖g1
   1. ... d1♕ 2. ♗c3 ♕xg1 3. ♕xg1#
   1. ... d1♗ 2. ♗f2 ♔d2 3. ♕e3#
   1. ... dxe1♕ 2. ♖xe1+ ♔d2 3. ♕e3#
4) 1. ♖g7
   1. ... ♔xe3 2. ♖g3+ ♔e4 3. ♕e5#
   1. ... ♔c4 2. ♖g2 ♔d3 3. ♕d4#
   1. ... ♔e4 2. ♕e2 ♔xf5 3. ♕f3#
5) 1. ♕d3
   1. ... ♖a5 2. ♕g3+ ♔e4 3. ♕e3#
   1. ... ♔g5 2. ♕f5+ ♔h4 3. ♘g6#
   1. ... ♔e5 2. ♕d5+ ♔f6 3. ♘g8#
6) 1. e8♘
   1. ... h1♕ 2. ♗g3+ ♔g4 3. ♘f6#
   1. ... h1♘+ 2. ♔f3 ♔h2 3. ♗f2#
   1. ... ♔g4 2. ♘f6+ ♔f4 3. ♗g3#
7) 1. ♕d6
   1. ... ♔xe3 2. ♖e7+ ♔f3 3. ♕g3#
   1. ... ♔e2 2. ♔g2 ♔xe3 3. ♖e7#
   1. ... g4 2. ♕d3 g3+ 3. ♖xg3#
8) 1. ♕d4
   1. ... cxd4 2. ♖f7 ♔c5 3. ♖c7#
   1. ... ♔b7 2. ♖f7+ ♔a6 3. ♕a1#
   1. ... ♔d7 2. ♕g4+ ♔e8 3. ♕c8#

16 Test / Mix: C

1) 1. ♖d7+ ♗xd7 2. ♕g7#; 1. ... ♕xd7 2. ♘f6+ (interfering and double attack: luring)
2) 1. ♘f6 ♗xf6 2. ♕e4; 1. ... gxf4 2. ♖xh7# (blocking)
3) 1. ... b4 2. ♗xb4 ♕b7+; 1. ... ♕b7+? 2. ♕f3 (double attack: luring)
4) 1. ... ♕xc3+ 2. ♔xc3 ♘xe4+ (double attack: luring)
5) 1. ... ♖xd4 2. ♕xd4 ♘g4+ (discovered attack: luring)
6) 1. ... ♖h4+ 2. ♘xh4 g4#
7) 1. ♖xb2 ♖xb2 2. ♕c3 (double attack: luring)
8) 1. ♖1e6 ♗xe6 2. ♕xh6; 1. ... ♕xe6 2. ♖xe6 ♗xe6 3. ♕xh6 f6 4. ♕g6+ (interfering)
9) 1. ... ♖a2+ 2.♗xa2 ♘c2# (blocking)
10) 1. ... ♗xc2+ 2. ♔xc2 b3+ (discovered attack: luring)
11) 1. ♘d5 exd5 2. ♖xe7; 1. ... ♖xd7 2. ♘xe7+ or 1. ... ♕xd7 2. ♘xf6+ (interfering)
12) 1. ♗c7 ♖xc7 2. ♕e5 (double attack: luring)

17 Test / Mix: D

1) 1. ... ♖d2 and 2. ... ♘xf3+ (double attack: luring)
2) 1. ♖h8+ ♗xh8 2. ♕xf7#; 1. ... ♔xh8 2. ♘xf7+ (luring away + mate or double attack: luring)
3) 1. ♖xd4 ♖xd4 2. ♕e3 (double attack: luring)
4) 1. ♕g7+ ♔xg7 2. ♖xg6# (discovered check: luring)
5) 1. ♖xf6+ ♔xf6 2. ♕f2+ (double attack: luring)
6) 1. ♕xd6 ♔xd6 2. ♗f4+ (discovered attack: luring)
7) 1. ♕h7+ ♘xh7 2. ♘g6# (blocking)
8) 1. e7 ♘xe7 2. ♕c7 (double attack: luring)
9) 1. ♕a4+ ♖a5 2. ♕c6+ ♗b6 3. ♕c8# (blocking)

10) 1. ♕d5+ ♕xd5 2. ♘xe7+ (double attack: luring)
11) Drawing
12) Drawing

18 Pin / Luring the back piece: A
1) 1. h6+ ♔xh6 (1. ... ♔g8 2. ♕f6) 2. ♕h1 (2. ♖xd4 ♔g7)
2) 1. e8♕+ ♔xe8 2. ♗a4; 1. ♗a4? ♖b1+
3) 1. ♖h8+ ♔xh8 2. ♗c3; 1. ... ♕xh8 2. ♕g6#; 1. ♗c3? ♕xg3+ 2. fxg3 ♗xh5 (often missed)
4) 1. g4+ ♔xg4 2. ♗e6
5) 1. ... ♘xd3 2. ♕xd3 e5; 1. ... e5? 2. ♗xc5
6) 1. ♕xc6+ ♖xc6 2. ♘f4
7) 1. ♘xc6 ♕xc6 2. c4; 1. c4? ♘de7
8) 1. ... ♕f5 2. ♗d3 d5
9) 1. ♗h7+ ♔xh7 2. ♕xe6
10) 1. ♗xc5 ♕xc5 2. ♕xd3; 1. ♕xd3 cxd3 2. ♗xc5 and 3. ♗xc8 is nothing special.
11) 1. ♘xc6 ♕xc6 2. ♕xc4
12) 1. ♗xf7+! ♔xf7 2. ♕xe4; 1. ♕xe4? ♘xe4 2. ♗xf7+ ♔h8 (2. ♖xf7 ♘d6)

19 Pin / Luring the front piece: A
1) 1. ♗xe5+ ♘xe5 2. ♕g3
2) 1. ♖xf4+ ♕xf4 2. ♖f1
3) 1. ♖xd6 ♕xd6 2. ♗g3
4) Drawing
5) 1. ♕f6+ ♕g7 2. ♖e7! ♕xf6 3. ♖xh7#
6) 1. ♖xe5 ♖xe5 2. ♖e1
7) 1. ♘xc5 ♘xc5 2. ♘a4
8) 1. ♖xc7+ ♖xc7 2. ♕c8
9) 1. ... ♗xg2 (1. ... ♖xg2+? 2. ♖xg2 ♕xd2 3. ♖xg8) 2. ♖xg2 ♕xd2
10) 1. ... ♕xf3+ (1. ... ♘g4 2. hxg4) 2. ♕xf3 ♖xe2+
11) 1. ♕xh7+ ♕xh7 2. ♘f7#; 1. ♘g6+? ♖xg6 2. ♕xg6 ♖e1#
12) 1. e6 ♗xe6 2. ♕xg4

20 Pin / Luring front or back piece: A
1) 1. ♗xd7+ ♔xd7 2. ♖h7
2) 1. ... ♖a1+ ♔xa1 2. ♕xd2
3) 1. ... ♖xf2+ 2. ♔xf2 ♗b6
4) 1. ♕xc7 ♖xc7 2. ♗f4
5) 1. ... ♕xg2+ 2. ♕xg2 ♖xf1+
6) 1. ... ♖xc4+ 2. ♗xc4 ♕xe2
7) 1. ... ♖xc3 2. ♕xc3 ♗f6
8) 1. ... ♖xd4 2. ♖xd4 c5
9) Drawing
10) 1. ♕xd5+ ♕xd5 2. ♗g2; 1. ♗g2 ♗b7
11) 1. ... ♕xg2+ 2. ♕xg2 (2. ♖xg2 ♖a1+) 2. ... ♘g3#
12) 1. ♕a3+ ♖e7 2. ♘g8!

21 Pin / Luring front or back piece: B
1) 1. ... ♖xe4 2. ♖xe4 d5
2) 1. ♖xe8+ ♕xe8 2. ♖xd5
3) 1. ♗xd7 ♕xd7 2. e4
4) 1. c6 Lxc6 2. b5
5) 1. f3 ♗xf3 2. 0-0 (2. ♖f1 ♗xg2) 2. ... e4 3. dxe4
6) 1. b5 ♕xb5 2. ♕e2

7) 1. ♖xf8+ ♕xf8 2. ♗xe5
8) 1. ♘d5 ♗xe4 (1. ... ♘xd5 2. ♖xd3) 2. ♘xe7 ♗d3 3. ♘c8
9) 1. ... ♖d1+ 2. ♖f1 ♕xf4
10) 1. ♘xf6+ gxf6 2. ♕xe5
11) 1. ♖e6 ♔g7 2. ♖e7
12) 1. ... ♗xh3 2. ♗xh3 g5 3. ♗xg5 ♖xh3

22 Endgame / Passed pawn: A
1) 1. g7 ♗xg7 (1. ... ♗d6 2. g8♕) 2. ♗f4#
2) 1. ♘e4 ♖xe4 2. g8♕
3) 1. ♗c4+ ♔h8 2. ♗f7
4) 1. ♖xf8+ ♔xf8 2. d7+
5) 1. ... ♖a3 2. ♖xa3 ♗xd6+
6) 1. ... ♗e1+ (1. ... b1♕ 2. ♖b5+ ♔a2 3. ♖xb1 ♔xb1=)
7) 1. ♖c8 ♔xa7 2. ♖xc5
8) 1. ♕e6+ ♕xe6 2. dxe6
9) 1. ♗e5+ ♔xe5 (1. ... ♗xe5 2. a7) 2. g7
10) 1. ♗f4 (1. ♗c1+ ♔b4 2. ♗b2 d4 ; 1. ♗xh6 ♔b4) 1. ... ♗xf4 (1. ... ♗g7 2. ♗d6#) 2. g7
11) 1. ♖c7 ♖h8 2. ♖c8
12) 1. ♗c4+ ♘xc4 2. d7

23 Endgame / Passed pawn: B
1) 1. ♕c8+ ♘xc8 2. d7
2) 1. ♖h5 ♖xh5 2. fxe7
3) 1. e4 (1. ♖xe6+ ♔xe6 2. e4 ♖f4) 1. ... ♔xe7 2. b7
4) 1. ♕c3+ ♖xc3+ 2. ♔xb2
5) 1. ♕h2+ ♔xh2 2. b8♕+ ♕xb8+ 3. ♔xb8
6) 1. ♖d7+ ♔b8 2. ♖xd6 ♖f1 3. ♖d8+
7) 1. ♖c8+ (1. d7+ ♔f7 2. ♖c8 ♖a5+ 3. ♔c6 c2) 1. ... ♖xc8 2. d7+
8) Drawing
9) 1. ♕xc5 ♘xc5 2. a7
10) 1. ♖d8 ♖xd8 2. ♗f6+
11) Drawing
12) 1. ♖g7+ ♔h8 2. ♖h7+ ♔g8 3. ♖h8+ ♔xh8 4. g7+

24 Endgame / Defend against a passed pawn: A
1) 1. ♗c4+ ♔xc4 2. ♔xe2 ♔c3 3. ♔d1 ♔d3 pat ½-½
2) 1. ... ♔e5 2. a7 ♗e6 3. a8♕ ♗d5+
3) 1. ♔d7 a2 2. ♔e7 a1♕ 3. ♗f6+
4) 1. ♖e1 dxe1♕ (1. ... ♔xe1 2. ♗a5) 2. ♗h4+
5) 1. ♔e4 g1♕ 2. f4+
6) 1. ♗d7 ♔xc7 2. ♗xh3
7) 1. ♘f3 ♔xf3 2. ♗h5+ ♔e3 3. ♗xe2
8) 1. ♗f1 (1. ♘xh5+? ♔e3) 1. ... ♔xg3 (1. ... g1♕ 2. ♘e2+) 2. ♗xg2
9) 1. ♗d3 ♗xd3 (1. ... g1♕ 2. ♖xf1+) 2. ♖g1 ♗f1 3. ♖xg2 (3. ♔xc5)
10) 1. ♖c8+ ♔xc8 2. cxb7+ ♔xb7 3. ♔b2
11) 1. ♔e1 h2 2. ♘d1+ ♔c2 3. ♘f2
12) 1. ♘e4 g2 2. ♘d2+

25 Double attack / Eliminating the defence: A
1) 1. ♗xc6+ ♗xc6 2. ♘e5+ (capturing)
2) 1. ♕xe5 ♖xe5 2. ♘f6+ (capturing)
3) 1. a5 ♘c8 2. ♘d5 (chasing away)

4) 1. ♕xe8+ ♖xe8 2. ♘c6+ (capturing)
5) 1. ... d4 2. ♘e4 ♘b3+ (chasing away)
6) 1. ... ♕xf3 2. gxf3 ♘e2+ (capturing)
7) 1. ♖a6+ ♖xa6 2. ♘xd7+ (luring away)
8) 1. ♖xd7+ ♗xd7 2. ♘xa6+ ♔b6 3. ♘xb4 (luring away)
9) 1. ♖xf7+ ♖xf7 2. ♘e6+ (capturing)
10) 1. ♗xb7 ♗xb7? 2. ♘e6+ (luring away)
11) 1. ... ♘hxf3+ 2. ♗xf3 ♘xh3+ (luring away)
12) 1. ... g4 2. ♘f4 ♘f3+ (interfering)

26 Double attack / Eliminating the defence: B
1) 1. ♗xd5 ♖xd5 2. ♕c3+ (capturing)
2) 1. ♗xc6 dxc6 2. ♕a3+ (capturing)
3) 1. ♘xf5 exf5 2. ♕xd5+ (luring away)
4) 1. ♘g5 fxg5 (1. ... g6 2. ♕h4+) 2. ♕h5+ (interfering)
5) 1. ♗xf6 ♕xf6 2. ♕d5+ (capturing)
6) 1. ♘xg6+ hxg6 2. ♕h4+ (luring away)
7) 1. ♘f5+ ♗xf5 (1. ... ♔f6 2. ♕d6+ ♖xd6 3. ♖xd6# ; 1. ... gxf5 2. ♕xe5+) 2. ♕xe5+ (interfering)
8) 1. ... ♘e3 2. fxe3 ♕xe3+ (luring away)
9) 1. ♖e7 ♕xe7 2. ♕xd5+ (luring away)
10) 1. ... ♗xg2 2. ♕xg2 ♕a5 (luring away)
11) 1. ♘d4 exd4 2. ♕b3+ (interfering)
12) 1. e5 ♘e8 2. ♕d3 (chasing away)

27 Double attack / Eliminating the defence: C
1) 1. ... ♖xh3 2. ♕xh3 ♕c6+ 3. ♔g1 ♕xe8
2) 1. ... ♗xe4 2. ♕xe4 ♕h6+
3) 1. ♗b4+ ♘d6 2. ♖h7+
4) 1. ... ♖xf3 2. ♕xf3 ♕g5+
5) 1. ♗xh6 ♗xh6 2. ♕d4
6) 1. ♘f6+ gxf6 2. ♕g1+
7) 1. ♘xe6 fxe6 2. ♕h5+ ♔d7 3. ♕xc5
8) 1. ♖b5+ cxb5 2. ♖c8+
9) 1. ♘e3 ♕d7 2. ♕b3+
10) 1. ♘xf5+ gxf5 2. ♕g5+
11) 1. ... ♗h3 2. f3 ♕b6+ 3. ♕f2 ♕xf6
12) 1. ... ♘h4+ 2. gxh4 ♕g6+ 3. ♘g3 ♕xc2 (3. ... ♗xg3? 4. ♖cc1)

28 Mate / Magnet: A
1) 1. ♖e8+ ♔xe8 2. ♕e7#
2) 1. ♖h8+ ♔xh8 2. ♕h7#
3) 1. ♕h6+ ♔xh6 2. ♖h1#; 1. ... ♔g8 2. ♖c8+ and mate
4) 1. ... ♖a3+ 2. ♔xa3 ♕a6+ and mate
5) Drawing
6) Drawing
7) 1. a4+ ♔xa4 2. ♕b3+
8) 1. ♕f8+ ♔xf8 2. ♖xf7+ ♔e8 3. ♖f8+ ♔d7 4. ♖2f7#
9) 1. ♖h8+ ♔xh8 2. ♕e8+ ♔h7 3. ♕g8#
10) 1. ♖h8+ ♕xh8 (1. ... ♔xh8 2. ♕h7#) 2. ♕f7#
11) 1. ... ♖h2+ 2. ♔xh2 ♕f4+ 3. ♔h1 ♕f3+ 4. ♔h2 ♕g2#
12) 1. ♕f6+ ♔xf6 2. ♗e5#; 1. ... ♔g8 2. ♗e5 and mate.

29 Mate / Magnet: B

1) 1. ♖c4+ ♔xc4 2. ♕c3#
2) 1. ♖xh7+ ♔xh7 2. ♕f7+ ♔h6 3. ♕xg6#; 2. ... ♔h8 3. ♘xg6#
3) 1. ... ♕h1+ 2. ♔xh1 ♗f3+ 3. ♔g1 ♖d1#
4) 1. ♕f8+ ♔xf8 2. ♖d8#
5) 1. ... ♗d3+ 2. ♔xd3 ♕d1#
6) 1. ... ♕g1+ 2. ♔xg1 ♖bxg2+ 3. ♔h1 ♖g1+ 4. ♖xg1 ♘f2#; 2. ♖xg1 ♘f2#
7) 1. ♖b8+ ♔xb8 2. ♖h8+
8) 1. ... ♖h1+ 2. ♔xh1 ♕h3+ 3. ♔g1 ♘f3#
9) 1. ... ♖g1+ 2. ♔xg1 ♕xh2+ 3. ♔f1 ♕h1#
10) 1. ... ♖a3+ 2. ♔xa3 ♕a1+ 3. ♔b3 a4#
11) 1. ... ♗xh3 2. ♔xh3 ♕f4 and mate on g3.
12) 1. ♖h7+ ♔xh7 2. ♕h2+

30 Strategy / Pawn structure: A

1) 1. ... c5 2. bxc5 ♗xc5
   The black bishop is more active now; besides that the white pawns are split up.
2) 1. ♘d5+ and 2. ♘xf6
   The black pawn structure got worse; especially pawn f7 is a problem child. Black can try to play f5 and f6, but then f5 will become a target for the white bishop.
3) Drawing
4) 1. ... g5 2. fxg6? ♗xg4
   Thanks to the pin of the white f-pawn Black can solve the problem of his backward pawn. Otherwise the rook should take over the protection of the g-pawn. The rook is no longer occupied by protecting the h-pawn.
5) 1. ♗xc6+ bxc6 2. ♕xf3
   Before White takes back on f3, he weakens the pawn structure of the opponent.
6) Drawing
7) 1. f5 ♗xc4 2. bxc4; 1. ♗xe6 fxe6 and there is nothing to worry about.
   White allows a double pawn. Black can not protect his weak pawn anymore.
8) 1. e5 ♗c7 2. ♗xg6
   White doesn't take on d5 because after 1. exd5 exd5 White remains with a pawn on e3 which can be attacked very easily. He prefers to move his e-pawn forward with tempo to deliver Black a weak double g-pawn.
9) 1. ♖c1 c5 2. ♖c4
   Of course White doesn't exchange on d5. The weak pawn on c6 must remain on the board. The rook is the best piece to attack the weak c- and a-pawns.
10) 1. ... h4 2. ♗xe5 dxe5
    Black gets a strong pawn duo in the centre.
11) 1. h5 ♗f5 2. h6
    Advancing the h-pawn is worsening the black pawn structure after 2. ... gxh6 3. ♗xf6 or after 2. ... ♗f8, when it is up to White in which moment he will take on g7.
12) 1. ♖e2
    It would be foolish to exchange the weak pawn on e5 for the f2-pawn. White can still take it on the next move.

31 Test / Mix: E

1) 1. ♗d7 ♔xd7 (1. ... ♖b2+ 2. ♔c1! ♔xd7 3. e8♕+ ♔xe8 4. ♖xh8+) 2. e8♕+ ♔xe8 3. ♖xh8+ (cashing in a passed pawn)
2) 1. ... ♖xc3 2. bxc3 ♕xa2+ (double attack: eliminating the defence)
3) 1. ♘xd5 winning a pawn (luring the front piece)
4) 1. ... ♖g1+ 2. ♔xg1 ♘f3+ 3. ♔h1 ♕h2# (magnet)
5) 1. d6 ♗xd6 2. ♖b6 (luring the front piece)

6) 1. ♖h8+ ♔xh8 2. ♕xh6+ ♔g8 3. ♕xg7# (luring the back piece)
7) 1. ♘d8 or 1. ♗d8 (interfering)
8) 1. ♔d3 ♘g5 (1. ... ♘d6 2. ♗c5; 1. ... ♘g3 2. hxg3 fxg3 3. ♔e2 h5 4. ♔f3 h4 5. ♔g4 ; 1. ... e5 2. ♔xe4 exd4 3. ♔xd4 ♔xf7 4. ♔e4) 2. ♗f6+ (cashing in a passed pawn)
9) 1. ... ♕xf3+ 2. ♔xf3 ♘h4+ 3. ♔f4 g5# (mate)
10) 1. ... ♖xc1 2. ♖xc1 ♕h6 (double attack: luring)
11) 1. ♘c6! ♖xe3 (1. ... ♖xc6 2. ♖xe7) 2. ♕xc2 (interfering)
12) 1. ... ♕xe2 2. ♖xe2 f6 (luring the back piece)

32 Test / Mix: F

1) 1. ... ♗xe3 2. fxe3 ♘c2 (double attack: luring)
2) 1. f4 ♗d6 2. ♕xe6+ (attack on a pinned piece)
3) 1. ♕a8 ♖xa8 2. ♘xe7+ (double attack: eliminating the defence)
4) 1. ♕f8+ ♔xf8 2. ♖h8#; 1. ... ♖xf8 2. ♘e7# (luring away + mate/ blocking)
5) 1. ... ♗e7 2. ♕xg5 ♗xg5+; 2. ♖dh1 ♕xf4 3. ♖xf4 ♗g5 (double attack)
6) 1. ... ♗e2 2. f3 ♘xg3; 2. ♕xe2 hxg6 (defending against a pin)
7) 1. ♗c4 ♖g7 2. ♖h8+ (double attack: eliminating the defence)
8) 1. ♕g6+ ♔xg6 2. ♕g4# (magnet)
9) Drawing
10) 1. ♖h7+ ♖xh7 2. ♕xg5+ ♔xg5 3. d8♕+ (cashing in a passed pawn)
11) 1. ... ♗f6+ 2. ♗c3 ♕d2 (luring the front piece)
12) 1. ♕g8+ (1. ♘g6+ ♔e8 2. ♕xg7 ♖e7) 1. ... ♔xg8 2. ♘g6 (luring the back piece and bringing in the helper)

33 Rook ending / Passed pawn: A

1) 1. ♖a6 ♖xa6 2. bxa6 and 3. a8♕+
2) 1. ♖d6+ ♖xd6 2. b8♕
3) 1. ♖h3+ ♔g8 2. ♖g3 ♖xg3 3. d7; 1. ♖f8+? ♔h7 2. ♖d8 ♖g5 3. ♔d2 ♔g7
4) 1. ... ♖g4+ 2. ♔c5 ♖h4 with promotion.
5) 1. ♖e3 ♔xe3 2. e7 ♖d1+ 3. ♔c2 ♖d2+ 4. ♔c1 with promotion.
6) 1. ♖d4 ♔xd4 2. d7 with promotion.
7) 1. ... ♖d1+ 2. ♔xd1 exf2 with promotion.
8) 1. h6+ ♔g8 2. h7+ ♔g7 3. ♖xf8
9) 1. ... ♖b2+ 2. ♔e3 ♖b3+ 3. ♖xb3 a1♕ or 2. ♔d1 ♖b1+
10) 1. ♔b4 ♖a1 2. ♖c5+ and 3. ♖a5; 1. ♖c5+?? ♖xc5+ with check!
11) 1. exd6 ♖xe1+ 2. ♔f2 ♖e8 3. dxc7 and 4. d6
12) 1. ... ♖c1! followed by 2. ... d2; 2. ♔e3 fails to 2. ... ♖e1+.

34 Endgame / Material advantage: A

1) 1. ♗c7+ (chases the king away from the protection of the rook or chases him into a mating net) 1. ... ♔xa4 (1. ... ♔a6 2. ♘xb4+) 2. ♘c3# *(Neidze 1963)*
2) 1. ♗e6 ♖c8 2. ♗xc8 ♔g8 3. ♗e6+ *(Vandecasteele 1975)* Playing for mate is necessary. Alternatives are not enough: 1. ♖xc6 c1♕ 2. ♖xc1 or 1. ♗xc2 ♖xf6+ 2. ♔xf6 (anticipates the theme of the wrong bishop in Step 5. White never gets the black king out of the corner). Try it. Draw.
3) 1. ♖d4 (the rook deprives the king of square d8 and forces the king into a knight fork) 1. ... ♔b8 (1. ... ♔c7 2. ♘a6+ ♔c6) 2. ♘a6+ *(Kralin Sokolenko 1960)*
4) 1. ♖c7+ ♔xd6 (1. ... ♔b6 2. ♘d5+ ♔b5 3. d7 ♖d6 4. ♔e5) 2. ♘b5# *(Tjavlovski 1960)*
5) 1. ♔a1 Thanks to the limited mobility of the black pieces, White can win with zugzwang. The king must give up the protection of the rook. Other moves fail: 1. ♘xa3? stalemate and 1. ♘d2? ♖xc3 2. ♔xc3 ♔a3 3. ♔c2 ♔xa2 *(Van der Heijden 2015)*.
6) 1. ♘d6 (forces promotion or mate) 1. ... ♖xc7 (1. ... ♔xd6 2. ♖xb7 or 1. ... ♖b4+ 2. ♔e5) 2. ♖a6#
7) 1. ♖e8 (threatens to move the knight away with sufficient material superiority) 1. ... ♖xd7 (or 1. ... ♔xd7 2. ♖e7+ with a winning X-ray check) 2. ♗e5# *(Brenev 1955)*

8) 1. ♘a5 ♔xa5 (otherwise, White will end being a bishop and a knight up; in practice, it's quite a job to win this: 1. ... ♔a7 2. ♔f2 or 1. ... ♗xc4+ 2. ♘xc4+) 2. ♗c7#
9) 1. ♖e4 ♖xb7 after another move, White retains his pawn, but he can also play for mate after: 1. ... ♖g7 2. ♗c6 ♖g8 3. ♖a4) 2. ♖e8#
10) 1. ♖dd5 ♖xf5 (1. ... ♖xd5 2. ♘xd5+) 2. ♘xf5+ *(Tusz 2011* with ♔e1 to e2*)*
11) 1. ♕c6 saves the knight because after 1. ... ♕xc6 follows 2. ♘e7+; capturing the knight will be mate: 1. ... ♔xf5 2. ♕e4# *(Avni 1994)*
12) 1. ♖d2+ ♔xe1 2. ♖d4 traps ♜h1 *(Petrov 1955)*

35 Endgame / The last pawn: A
1) 1. ♘e7 (1. h7? ♔g7 2. ♘f6 ♔h8 ½-½) ♔f6 2. ♔e3
2) 1. ♔e3 d2 2. ♔d4 d1♕+ 3. ♗xd1 ♔xb7 4. ♔c5
3) 1. e4 (1. ♗a6 ♔e3 1. ♗d2+ ♔g3 2. ♗a6 - 2. ♗e1+ ♔f4 - 2. ... ♔f2) 1. ... dxe3 2. ♗d6#
4) 1. ♘d7+ (1. a5? ♔b5 2. a6 ♔b6 3. a7 ♔c7) 1. ... ♔b4 2. ♘b6 ♔a5 3. ♔b7 ♔b4 4. ♔a6
5) 1. ♔e7 ♗xh5 2. ♗f6+ ♔g6 3. ♗d3#
6) 1. ♗a6 ♖xa6 2. ♖d7+ ♔f6 3. ♖d6+ ♖xd6 5. a8♕
7) 1. ♗g6 ♖xf4 2. ♖d3#
8) 1. ♗d4+ ♔a6 2. b5+ ♔xb5 (2. ... ♗xb5 3. ♗c8#) 3. ♗c4#
9) 1. ♘b5 ♗c4 2. ♗e5 ♗xb5 3. c4+
10) 1. gxf7 ♔g7 2. ♔e6+ ♔f8 3. ♗g7+ ♔xg7 4. ♔e7
11) 1. ♗h5+ ♔e6 2. ♔d4 ♔f5 3. g6 ♔f6 4. ♔e4 h3 5. ♔f3
12) 1. ♔xe6 c1♕ 2. g8♘+ ♔h7 3. ♘f6+

36 Double attack / Chasing: A
1) Drawing
2) 1. ... ♕c5+ 2. ♔g2 ♘e3+; 2. ♔h1 ♘f2+; 2. 2. ♔f1 ♕f2#
3) 1. ♘b6+ ♔b8 2. ♘d7+
4) 1. ... ♗b7+ and 2. ... ♘e2+
5) 1. ... ♕d1+ 2. ♔g2 ♕c2+
6) 1. ♕e5+ ♔f7 2. ♕d5+
7) 1. ♕e8+ ♔h7 2. ♕e4+; 1. ♕a8+? ♖d8
8) 1. ... ♕e1+ (1. ... ♕e4+ 2. ♕g2 ♕b1+ 3. ♕g1) 2. ♔g2 ♕e4+
9) 1. ♗e3 (1. ♘c7+ ♔d8 2. ♗e3 ♗xe4+) 1. ... ♕a8 2. ♘c7+
10) 1. ♕c2+ ♔g8 2. ♕c8+ ♗f8 3. ♕xb7
11) 1. b4 ♗d4 2. ♕e4+
12) 1. f4 ♕d6 2. e5

37 Double attack / Targeting: A
1) 1. ♕b2 ♖d1 2. ♕b4+
2) 1. ♘f5 ♕f6 2. ♘h6+
3) 1. ... ♘f3+ 2. ♔xg2 ♘d2
4) 1. ♘c7 ♖c8 (1. ... ♕e5 2. ♕xe5+ dxe5 3. ♘xa8) 2. ♘e6+
5) 1. ... ♕d4+ 2. ♕f2 ♕b4
6) 1. ... ♘c5 2. ♖bb1 ♘d3
7) 1. ... ♕e2 (1. ... ♕g6? 2. ♖b2) 2. g3 ♕e3+
8) 1. ... ♕d4+ 2. ♗e3 ♕b2 3. ♕c2 ♕xb5
9) 1. ♕a7 ♗e7 2. ♕a2+
10) 1. ... ♘d4 2. ♕e3 ♘e2+
11) 1. ♕d5+ ♖f7 2. ♕h5
12) 1. ♘c5 ♖e5 (1. ... dxc5 2. ♖d7) 2. ♘a6

38 Double attack / Chasing or targeting: A
1) 1. g3+ ♔f3 2. ♕g4+

2) 1. ♕f7+ ♔xd6 2. ♕f6+
3) 1. ... ♕d6+ 2. ♔xg5 ♕d2+ 3. ♔f5 ♕xh6
4) 1. ♗f2+ ♔h5 2. g4+ ♔g5 3. ♗e3+
5) 1. ... ♗e7 2. ♕g3 ♗h4
6) 1. ... ♖f8+ 2. ♔xe5 ♖e8+
7) 1. ♘c4+ ♔a4 2. ♖a6+ ♔b4 (2. ... ♔b3 3. ♘d2+) 3. ♖b6+
8) 1. ♖c4+ ♔d3 2. ♗f5+ ♔xc4 3. ♗xb1
9) 1. ♗d2 ♕xc4 2. ♖c1
10) 1. ♕g1+ (1. ♕f2+? ♔b5) (1. ♕e3+? ♔b4) 1. ... ♔d6 (1. ... ♔b5 2. ♕b1+) 2. ♕h2+
11) 1. ♕h8+ ♔e7 2. ♕f8+
12) 1. ♗c7 ♕xb4 2. ♖b1

39 Double attack / Chasing or targeting: B

1) 1. ♖c3+
2) 1. ♘d7 ♕e7 2. ♕xb8
3) 1. ... ♕d6 2. g3 ♕c5+
4) 1. ♕b8+ ♔f7 2. ♕f4+
5) 1. ♕b3+ ♔h8 2. ♖d5
6) 1. ... b5 2. ♘e3 c4
7) 1. f4 ♖e6 2. ♘g7+
8) 1. ... ♕b1+ 2. ♔h2 ♕b8+
9) 1. ... ♕e5 2. ♕d2 ♕e4
10) 1. ♕e3+ ♔f8 2. ♕a3+
11) 1. ... e6 2. ♗a2 (2. ♗b3 ♕b6+) 2. ... ♕a7+
12) 1. ♖f1 ♕g7 2. ♕f3

40 Mating pattern (♖♗): A

1) 1. ♕xh7+ ♔xh7 2. ♖h1+ ♗xh1 3. ♖h3# (access by capturing + luring away)
2) 1. ... ♗c5+ 2. ♕xc5 ♕e1+ 3. ♘xe1 ♖f1# (clearing a line + luring away)
3) 1. ... ♕xg2+ 2. ♔xg2 ♖g8+ 3. ♔h3 ♗c8# (access by capturing + chasing)
4) 1. ... ♕xf1+ 2. ♔xf1 ♗d3+ 3. ♔g1 ♖f1# (luring + double check)
5) 1. ♖f3+ ♔h8 2. ♘g6+ hxg6 3. ♖h3# (discovered check + access by luring away)
6) 1. ♕xg8+ ♔xg8 2. ♖h8+ ♔xh8 3. ♗f7# (access by capturing + luring)
7) 1. ... ♖xh2+ 2. ♕xh2 ♕xh2+ 3. ♔xh2 ♖h8# (access by capturing twice)
8) 1. ♘e7+ ♔h8 2. ♘g6+ hxg6 3. hxg3# (chasing + access by luring away + discovered check)
9) 1. ♕a8+ ♔h7 2. ♕h8+ ♘xh8 3. ♖g7# (chasing + access by luring away)
10) 1. ♖a8+ ♔xa8 2. ♗xc7 gxh3 3. ♖a1# (luring away + bringing in guard)
11) 1. ♕xd4 ♗xd4 2. ♗xd4 ♗xg4 3. ♖h8# (bringing in the helper)
12) 1. ♗e6+ ♔b7 2. ♗d5+ ♔a7 3. ♖a8#; 1. ♗d5+ ♕xh8 (bringing in the helper + chasing twice)

41 Mating pattern (♖♘): B

1) 1. ♕h7+ ♔f8 2. ♕h8+ ♗xh8 3. ♖xh8# (chasing away + bringing in the chaser thanks to a twofold attack)
2) 1. ♕xh6+ ♗xh6 2. ♖xh6+ ♔g7 3. ♘f5# (access by capturing + chasing)
3) 1. ♕h7+ ♕xh7 2. ♖f8+ ♕g8 3. ♖xg8# (luring away + bringing in the chaser)
4) 1. ♕xh7+ ♔xh7 2. ♖h3+ ♖h6 3. ♖xh6# (access by capturing + bringing in the chaser)
5) Drawing
6) Drawing
7) 1. ♘e7+ ♔h8 2. ♕xh7+ ♔xh7 3. ♖h5# (chasing + access by capturing)
8) 1. ♘df7+ ♔h7 2. ♘g5+ hxg5 (2. ... ♔h8 3. ♘ef7# is mating pattern with ♘♘) 3. ♖h3# (chasing + access by luring away or chasing)
9) 1. ♕xh6+ ♗xh6 2. ♘g5+ ♔h8 3. ♖h7# (access by luring away + double check)

10) 1. ♕g6 fxg6 2. ♖xg7+ ♔f8/h8 3. ♘xg6# (access by luring away + chasing)
11) 1. ... ♕h3 2. ♖bg1 2. Txg7 ♕xh2#) 2. ... ♕xh2+ 3. ♖xh2 ♖xg1# (luring + access by capturing)
12) 1. ♕xg7+ ♘xg7 2. ♖xh6+ ♔g8 3. ♘e7# (access by capturing + chasing)

42 Mating pattern (♘♗): C

1) 1. ♕xf6+ ♗xf6 2. ♗xf6+ ♔g8 3. ♘h6# (access by capturing + chasing)
2) 1. ... ♘f4+ 2. ♖xf3 ♗xf3+ 3. ♔g1 ♘h3# (discovered check + chasing)
3) 1. ... ♕g1+ 2. ♖xg1 ♘f2+ 3. ♔h2 ♗e5# (blocking + chasing)
4) 1. ... ♕b4+ 2. ♔a1 ♕c3+ 3. ♖xc3 ♗xc3# (chasing)
5) 1. ... ♕xg2+ 2. ♔xg2 ♗f3+ 3. ♔g1 ♘h3# (access by capturing + chasing)
6) 1. ♕xh7+ ♘xh7 2. ♘g6+ ♔g8 3. ♗a2# (access by capturing + chasing)
7) 1. ♘g6+ ♔h7 2. ♘e5+ ♔h8 3. ♘f7# (chasing + discovered check)
8) 1. ♕xc7+ ♔xc7 2. ♘d5+ ♔c8 3. ♘b6# (access by capturing + chasing by double check)
9) 1. ... ♕xg2 2. ♔xg2 ♘f4+ 3. ♔g1 ♘h3# (access by capturing + chasing by double check)
10) 1. ♘ef6+ (1. ♘df6+ ♔f8) 1. ... gxf6 2. ♗h6+ hxg4 3. ♘f6# (access by capturing)
11) 1. ♕f6 gxf6 2. ♘h6+ ♔g7 3. ♗xf6# (access by luring + chasing)
12) 1. ♕g8+ ♔xg8 2. ♘e7+ ♔f8 3. ♘xg6# (access by luring + chasing)

43 Attacking the castled king: A

1) 1. ♗xh7+ ♔h8 2. ♗g6+ ♔g8 3. ♕h7+ ♔f8 4. ♕xf7#
2) 1. ♕g7+ ♗xg7 2. ♗xg7+ ♔g8 3. ♗f6#
3) 1. ♕g7+ ♗xg7 2. ♖d8+ ♗f8 3. ♖xf8#
4) 1. ♗h6+ ♔xh6 2. ♕f6+ ♔h5 3. g4#
5) 1. ♕g3 ♖g8 2. ♕c3+
6) 1. ♖f4 exf4 2. gxf4 and 3. ♖g1
7) 1. ... ♘g3+ 2. ♔g1 ♕g2+ 3. ♖xg2 ♘h3#
8) 1. ♗f6
9) 1. ♘g4 fxg4 2. ♗xh7+ and as in position 1.
10) 1. ♕h6 ♕e7 (protects f7 - see 1) 2. ♕xh7+ ♔f8 3. ♕h8#
11) 1. ♕xf7 ♘xf7 2. ♖g8+ ♖xg8 3. ♘xf7#
12) 1. ♕g4+ ♔h8 2. ♕h4

44 Attacking the castled king: B

1) 1. ♘f6+ gxf6 2. ♕g3+ ♔h8 3. ♗xf6#
2) 1. ♕xh7+ ♖xh7 2. ♖g8+ and mate; 1. ... ♔xh7 2. ♖h5#
3) 1. ♘g6+ hxg6 2. ♕h6+ ♗h7 3. ♕xg7#
4) 1. ♘e7+ ♔h8 2. ♖xh7+ ♔xh7 3. ♕h1#; 2. ... ♘xh7 3. ♘g6#
5) 1. ♘g6+ fxg6 2. ♕xh7+ ♔xh7 3. ♖h4#
6) 1. ♘h6+ gxh6 2. ♕xf6; 1. ... ♔h8 2. ♕xf6!; 2. ♗xf6? exf3
7) Drawing
8) Drawing
9) 1. ♕h5 ♗h4 2. ♕xh7+ ♔xh7 3. ♖xh4+ ♔g8 4. ♖h8#; 1. ... gxh5 2. ♖g3+ and mate.
10) 1. ♕g6 hxg5 (1. ... fxg6 2. ♘e7+ ♔h8 3. ♘xg6+) 2. hxg5 fxg6 3. ♘e7#
11) 1. ♕xh7+ ♔xh7 2. ♖h5+ ♔g7 3. ♗h6+ ♔h8 4. ♗f8#
12) 1. ♕c7+ ♔a7 2. ♕xb7+ ♔xb7 3. ♖b3+ ♔a7 4. ♖c7#

45 Attacking the castled king: C

1) 1. ... ♘e2+ 2. ♖xe2 ♘f4
2) 1. ♕xg7+ ♔xg7 2. ♖h8! and 3. ♖1h7#
3) 1. ♖e8 ♕xe8 2. ♕xf6+; 1. ... ♗c4 2. ♕g7#
4) 1. ♕h6 ♖g8 2. ♖e8 ♕xe8 3. ♕f6+
5) 1. ♘f6+ ♗xf6 2. ♗d3
6) 1. ♘f5 fxg5 2. ♘e7#

7) 1. ♖e7 ♖xe7 2. ♕xf8#; 1. ... ♗xe7 2. ♕xh7#
8) 1. ♗xh7+ ♘xh7 2. ♕xf7+ ♔h8 3. ♘g6#
9) 1. ♖g3+ ♔h8 2. ♖e4; 1. ♖e4? ♕g7
10) 1. ♖f5 and 2. ♕h6
11) 1. ♖xd7 ♗xd7 2. ♘f6+ ♔f8 3. ♘d5
12) 1. ♕f6 ♗xf6 (otherwise 2. ♖h8+) 2. gxf6 and 3. ♖h8#

46 Seventh rank: A

1) 1. ♕f1+ ♔e8 2. ♕b5+ ♔f8 3. ♕xc5+
2) 1. ♖b7+ ♔a8 2. ♕xc8+ ♖xc8 3. ♖xa7+ ♔b8 4. ♖hg7#
3) 1. ♖a7+ ♔b8 2. ♖cb7+ ♔c8 3. a6 and mate op a8.
4) 1. ... ♖xb2 2. ♕xa8+ ♔e7
5) 1. ♕f7 ♖g6 2. ♕h7#
6) 1. ... ♕xe4+ (1. ... ♘f3? 2. ♕xh7#) 2. ♘xe4 ♘f3
7) 1. ♘f6+ ♔h8 2. ♕xh6+; 1. ... gxf6 2. ♕e6+ ♔h8 3. ♕xf6+; 1. ♕xh6? b1♕!
8) 1. ... ♖g2 2. a8♕ ♖bf2+ 3. ♔e1 ♖g1#
9) 1. ... ♘xf3 2. gxf3 ♖d2
10) 1. ♕xg6 fxg6 2. ♖xg7+ ♔h8 3. ♖h7+ ♔g8 4. ♖ag7#
11) 1. ♕xf4+ ♘xf4 2. ♖cf7+ ♔e8 3. ♖g8#
12) 1. ♖xb7+ ♔a8 2. ♖a7+ (2. ♕xb6? ♖d1#) 2. ... ♔b8 3. ♕xb6+

47 Seventh rank: B

1) 1. ♖f7 ♕xh3 2. ♖cxc7+ ♔b8 3. ♖b7+ ♔c8 4. ♖fc7#
2) 1. ♖g7+ ♔h8 2. ♘f8 (threatens 3. ♘g6#) 2. ... ♖xf8 3. ♖h7+ ♔g8 4. ♖cg7#
3) 1. ♘f6 ♗g7 2. ♕h6 and 3. ♕xh7# or 3. ♖xh7#
4) 1. ♖c8 ♖d8 2. ♖1c7
5) 1. ♕e8 ♕xe8 (1. ... ♕xd7 2. ♘xf6+) 2. ♘xf6+ ♔h8 3. ♖xh7#
6) 1. ♖c7+ ♔d8 2. ♖h7 ♕xh7 (2. ... ♕c6 3. ♖a8+ ♕xa8 4. ♖h8+ ; 2. ... ♕d6+ 3. ♖d2) 3. ♖a8+ ♔c7 4. ♖a7+
7) 1. c8♕ ♖xc8 2. ♕b7
8) Drawing
9) Drawing
10) 1. ♕d7 (threatens 2. ♖f8+)
11) 1. ... ♘g3 2. ♖f2 ♖xf2 3. ♖xg3 ♖xf4
12) 1. ♖c7 ♗e4 2. ♗g3

48 Pawn endings / Strategy: A

1) 1. h4 ♔d4 2. f6 (throwing up an obstacle; the black king will remain outside the square of the pawn)
2) 1. a4 ♔c5 2. a5 (the pawns control the king; White captures on h3 and approaches with the king)
3) 1. g3 g5 2. g4 ♔c6 3. ♔xc4; 1. g4? g5 (working with zugzwang)
4) 1. a5 bxa5 2. ♔d2 ♔b3 3. ♔c1 (shifting the key squares by delivering Black a rook's pawn)
5) 1. ... ♔b8; 1. ... b5 2. axb6 with draw (first activate the king)
6) 1. ... b6 2. ♔f3 a6 (candidate passed pawn in front)
7) 1. ... ♔c3 2. a4 ♔xd4 3. ♔e6 ♔c5 4. ♔e5 with a draw (first hold off the king)
8) 1. ... g5+ 2. hxg5 ♔g6 (first weakening the pawn structure)
9) 1. ... a6 2. ♔d2 ♔b3 (activating the king but first preventing b5)
10) 1. ... f5 (Black must activate his king, but first he must prevent White playing e4)
11) 1. ... f4 2. ♔c4 ♔g6 (activating the king; first 1. ... ♔g6 does not win after 2. g3)
12) 1. ... h4 (1. ... ♔g4 2. ♔h6 ♔xg3 3. ♔xh5) 2. gxh4 h5 (holding off the white king)

49 Attacking in the endgame: A

1) 1. ... ♘f1 (1. ... ♘g4? 2. ♕f8+ ♔xf8 stalemate) (bringing in pieces and avoiding stalemate)
2) 1. ... ♔h6 2. ♕e6+ ♖f6 (taking control of the flight square)

3) 1. c8♕ ♖xc8 2. ♔f7 (eliminating of the defence)
4) 1. ... ♔g7 2. ♔g4 ♗d7# (taking control of the flight square)
5) 1. ♘f6 ♔d8 2. ♖d7+ ♔c8 3. ♖e7 (bringing in pieces)
6) 1. ♖d8+ ♔g7 2. ♖bb8 (bringing in pieces)
7) 1. ... ♔c4 2. f5 ♖e2+ 3. ♔f4 ♖e4# (taking control of the flight square)
8) 1. ♖h1 ♘d7 2. ♖a1 (bringing in pieces)
9) 1. ♗g5 fxg5 (1. ... g1♕ 2. ♗xf6+ ♔g8 3. h7+) 2. ♔g6 (eliminating of the defence)
10) 1. ♖b5+ ♔xa4 2. ♖b7 ♖d8 3. ♗b3# (bringing in pieces)
11) 1. f3 exf3 2. ♔h3 ♖6c7 3. g4# (taking control of the flight square)
12) 1. ... ♗f1 2. hxg6 ♔g5 (bringing in pieces and taking control of the flight square)

50 Double attack / Clearing a square: A
1) 1. ♘xc6 ♕xc6 2. ♕d4+
2) 1. ♕a8+ ♔h7 2. ♘f3
3) 1. ... ♘xf3+ 2. gxf3 ♕d4+
4) 1. g5 ♗g7 2. ♕h3+; 1. ♕h3+? ♔g8 2. g5 ♗f5
5) 1. ... e2 2. ♖e1 ♖e3+
6) 1. ♕xf5 ♖xf5 2. ♘e6+
7) 1. ... ♕xf3+ 2. ♗xf3 ♘e3+
8) 1. ... d4 2. ♗d2 ♕d5
9) 1. ... ♘d7 2. ♕c4 e5
10) 1. ♕g8+ ♘xg8 2. f8♘+ ♔h8 3. ♘xe6
11) 1. ... ♗b3 2. ♖e1 ♘c4
12) 1. ♕c5 ♗xc5 (1. ... ♕f3+ 2. gxf3 ♖g1+ 3. ♔c2) (1. ... ♗xe3 2. ♕f8#) 2. ♘f5#

51 Double attack / Clearing a line: A
1) 1. c3 ♗e7 (1. ... ♗a5 2. b4) 2. ♕a4+
2) 1. d5 cxd5 (1. ... ♖xb3 2. dxe6) 2. ♗c5+
3) 1. ... dxc4 2. ♗xc4 ♕a5+
4) 1. ... ♗xc3+ 2. bxc3 ♕h4+
5) 1. ♘e3 ♕h5 2. ♕b3+
6) 1. ... e5 2. fxe5 fxe5 3. ♗e3 ♗d5+
7) 1. f6 ♗f8 2. ♕e6+ (2. fxg7 ♗xg7 3. ♕e6+)
8) 1. ... ♘f5 2. ♖f3 ♕b8+; 1. ... ♕b8? 2. ♗e5
9) 1. ♖xc3 bxc3 2. g4
10) 1. e6 fxe6 2. ♕c3; 1. ♕c3? ♗b4
11) 1. ♘xe6 (1. ♕d3? ♕g8 2. ♘xe6 ♘xe5) 1. ... ♖xe6 2. ♕d3
12) 1. g5 (1. ♕h3+? ♔g8 2. g5 ♗f5) ♗e7 2. ♕h3+

52 Double attack / Clearing: A
1) 1. ♗xd5 exd5 2. ♘c6
2) 1. ... c4 2. ♗xc4 ♕c5+ 3. ♔h1 ♕xa3
3) 1. ♘b6 ♖d8 2. ♖c5
4) 1. d6 ♕xd6 2. ♕e4
5) 1. ... d4 2. ♗xd4 ♕d5
6) 1. ♘xe7+ ♕xe7 2. ♕d5+ ♔g7 3. ♕xa8
7) 1. b6 axb6 (1. ... ♕b8 2. bxa7 ♖xa7 3. ♗xd6 ♕xd6 4. ♘b5) 2. ♘b5
8) 1. ♖xc5 dxc5 2. ♕a8+
9) 1. ... ♘xf3+ 2. ♗xf3 ♗c3+
10) 1. ... ♘e4 2. fxe4 ♕h4+
11) 1. ... b3 2. axb3 ♘b4 3. ♕d2 ♘xc6
12) 1. ... ♖b7+ 2. cxb7 (2. ♔a4 ♘c5+ 3. ♕xc5 dxc5 4. cxb7) 2. ... c5+

53 Double attack / X-ray: A

1) 1. ♕xh3 ♖xh3 2. ♖xg8+ (elimination of the defence: luring away)
2) 1. ♕g3+ ♔c8 2. ♗g5 ♕g6 3. ♗xd8 (targeting)
3) 1. ... d4 2. ♗xd4 ♗d5+ (square clearing)
4) 1. ... f5 2. ♘d2 ♗b4 (chasing)
5) 1. ... ♗e7 2. ♕g3 ♗h4 (chasing)
6) 1. ... ♖b1 2. ♕xb1 ♕h1+ (luring)
7) 1. ... ♘c6+ 2. ♗xc6 ♖b1+ (elimination of the defence: luring away)
8) 1. ... ♘xd5 2. exd5 ♖c3 (elimination of the defence: capturing)
9) 1. ... g5 2. ♕xg5 ♗e7 and 3. ... ♗xh4 (luring)
10) 1. ♘f5 ♕e5 (2. ... ♕f7 3. ♘d6+; 2. ... ♕e6 3. ♘d4+; 2. ... ♕xb4 3. ♖b8+) 2. ♖a5+ (chasing)
11) 1. ♖f6+ exf6 2. ♕h7+ (elimination of the defence: luring away)
12) 1. ... c6 2. ♕c4 ♕c1+ 3. ♔f2 ♕xh1 (elimination of the defence: luring away)

54 Endgame / Queen against pawn: A

1) 1. ♕e1 (the queen is on the promotion square)
2) 1. ... ♔c2 (½-½ because of the rook's pawn, the white king is too far away)
3) 1. ♔g3 (1. ♕xd2 stalemate)
4) 1. ♕a6 (the queen will come to the promotion square)
5) 1. ♕e5 ♔b3 2. ♔f5 c2 3. ♕a1 (the queen will come to the promotion square or the pawn does not reach the second rank)
6) 1. ♔b3 c1♕ 2. ♕h7+ ♔a1 3. ♕a7+ (White's king is close enough to the pawn)
7) 1. ... ♔b2 (king must go to the corner)
8) Drawing
9) Drawing
10) 1. ♔b4 ♔b2 2. ♔a4+ (the white king is close enough to the pawn)
11) 1. ♔f4 f1♕+ 2. ♔g3 (the white king is close enough to the pawn)
12) 1. ♕b3 or 1. ♕a1+ (preventing the black king to occupy the corner)

55 Test / Mix: G

1) 1. ♕b8+ ♔h7 2. ♕b1+ (double attack: chasing)
2) 1. ♘e6 ♗xe3 2. ♘xd8+ (discovered attack)
3) 1. ... ♖xc3 2. ♖xa2 ♖f3+ ('seventh' rank)
4) 1. ♕g1+ ♔f8 2. ♕c1 (double attack: aiming)
5) 1. ♖g1+ ♔h8 2. ♕xh7+ ♔xh7 3. ♖h4# (mate by access)
6) 1. ♖c7+ ♔g6 2. ♕d1 (double attack: chasing)
7) 1. ... ♖e2 2. ♕xb6 ♖gxg2+; 2. ♖xg5 ♖xf2 3. ♖xf2 hxg5 ('seventh' rank)
8) 1. ♕g6 (1. ♖xg7+ ♔xg7 2. ♕g4+ ♔h7 3. ♕xf4 dxc3) 1. ... ♕e5 2. f6 (attacking the king)
9) 1. ♖g4+ fxg4 2. ♕g6+ ♔h8 3. ♕h7# (attacking the king - access)
10) 1. h3 ♘h6 2. ♕e4 (double attack: eliminating the defence)
11) 1. ... ♕xg2+ 2. ♖xg2 ♖dxg2+ 3. ♔h1 ♖g1+ ('seventh' rank)
12) 1. ♕h5 ♘c6 2. ♕h2+ (double attack: aiming)

56 Test / Mix: H

1) 1. ♖a8+ ♗d8 2. ♖xd8+ ♔xd8 3. ♘xf7+ (double attack: luring)
2) Drawing *(Anand)*
3) 1. ♗f8 ♖xf8 2. ♘e7# (mate)
4) 1. e4 ♗xe4 2. ♕b1 (luring the front piece)
5) 1. ♖xf6 ♕xf6 2. ♕c2; 1. ♕c2? ♖c4 (double attack: eliminating the defence)
6) 1. ♕xg6+ hxg6 2. ♘f6+ ♔g7 3. ♖h7# (attacking the king - access)
7) 1. d6 ♗xd6 2. ♕d2 (double attack: luring)
8) 1. ♖f6 ♕xe5 2. ♕xh6+; 2. ♖h6+? ♔g8 (attacking the king)
9) 1. ... ♕xh2+ 2. ♔xh2 ♘f3+ and 3. ... ♘f2# (double check: luring)

10) 1. ... ♖c4 2. ♖xc4 ♕xb7 (2x attacking the pinned front piece, cross pin)
11) 1. ♗g6+ ♔e6 (1. ... ♔xg6 2. ♕h5#) 2. ♕g8+ ♔d7 3. ♗f5+ (double attack: chasing)
12) 1. ... ♗xf2+ 2. ♔xf2 ♘xe4+; 2. ♕xf2 ♘d3+ (double attack: luring)