

# 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 ♖gf8 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. ♖h5 ♕xh5 2. ♗e8#
  1. ♖h5 ♕h7 2. ♗c2#
  1. ♖h5 ♕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) Drawing

### 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) 1. ♖g5 ♕xh6 2. ♜f5#
1. ♖g5 ♕f6 2. ♜e8#
1. ♖g5 ♕h8 2. ♘b2#
1. ♖g5 ♕f8 2. g7#

### 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. ♜xe7+? ♖xe7 3. ♗xc8 ♘xc8) 2. ... dxe5 3. ♗xc8
- 8) 1. ♜xe7+ ♗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 ♖gxg2 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 g1 ♜ 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) 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#
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#
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#
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#
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#
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. ♖xc6 ♜ac8 2. ♖h6 (defending by moving away and protecting)
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 (verdedigen door tegenaanval)
- 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 f4 (2. ... a1♚ 3. ♜e2#) 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+)
- 4) 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+ heft het stalemate op maar na 2. ... ♕xg7 3. ♙xa2 ♕g6 4. ♕xe5 ♕g5 verdwijnt met h7-h5-h4 de laatste witte pion)
- 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. ... ♘b3 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. ♘d3 ♕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
- 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 counterattack)
- 9) 1. ♘d6 ♚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#  
 8) 1. ... ♜fe8 2. ♗c3 ♚f8 (2. ... e5 3. ♜xe5 ♜xe5 4. ♗xe5) (defending against mate door 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. ♘xe7 ♜xd1+ 4. ♗c1 ♜xc1+ 5. ♚xc1 ♚b8) 2. ... ♚xc8 (2. ... ♜xc8 3. ♘xe7) 3. ♘xe7+ (intermediate move)