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Chapter 1
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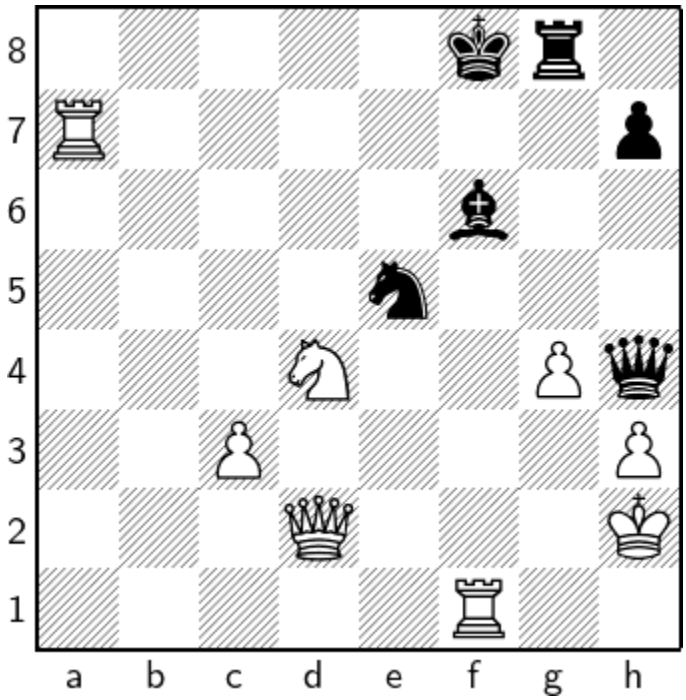
1.1.1 ?



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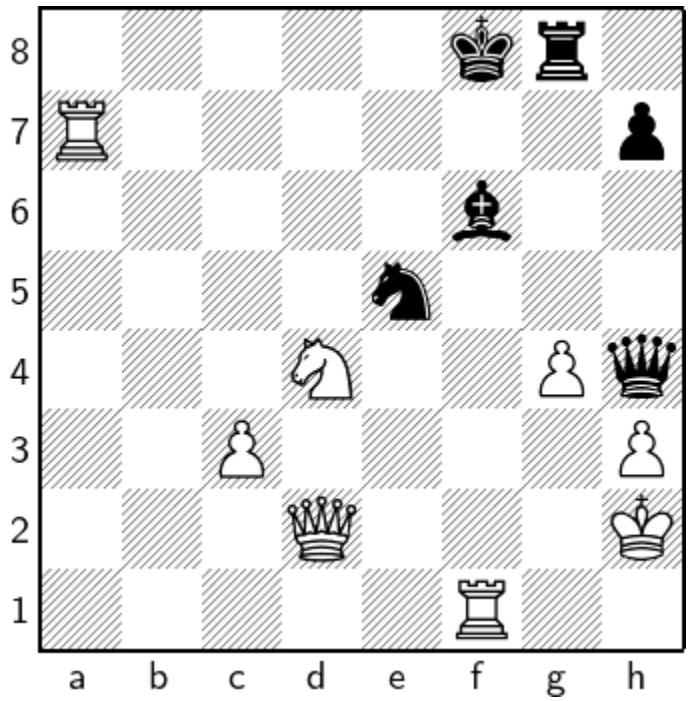


1 ♘e6+ ♔e8 2 ♕d8+ ♗×d8

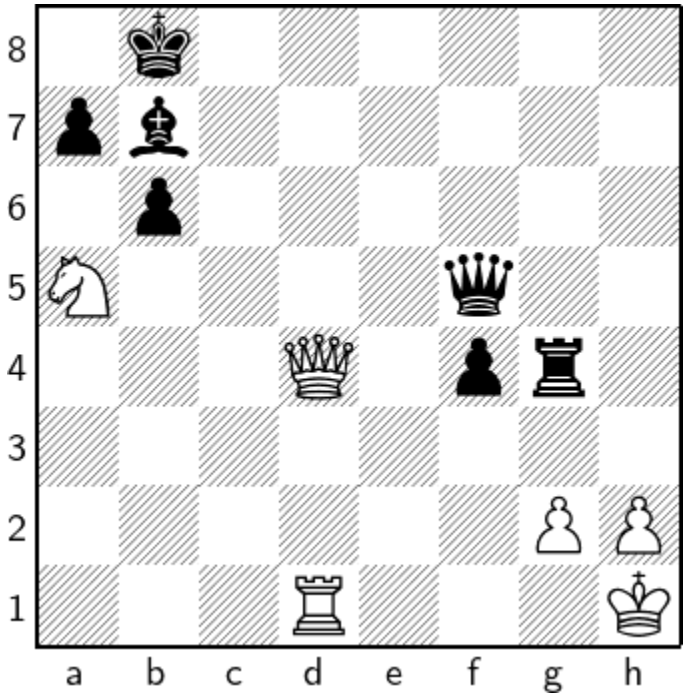
2…♗×d8 3 ♖f8+

3 ♖f8+ ♖×f8

3…♖×f8 4 ♘g7#

1.2 ?

1.2.1 ?



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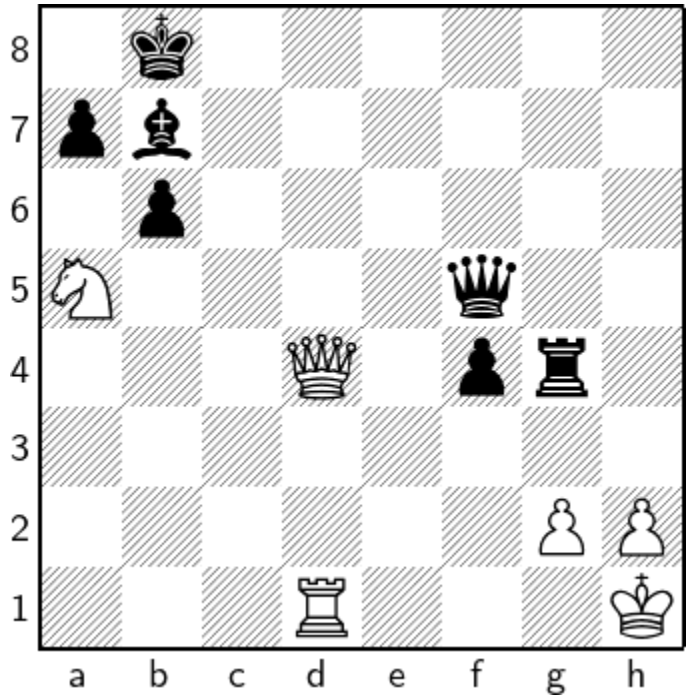

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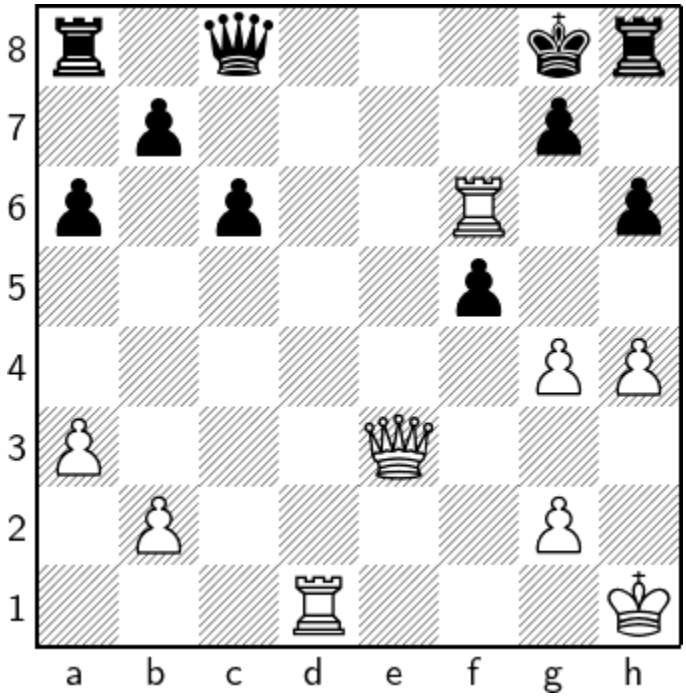
2…♗×c6 3 ♖d8+

3 ♖d8 ♗×c6

3…♕×d8 4 ♕×b7#

1.3 ?

1.3.1 ?



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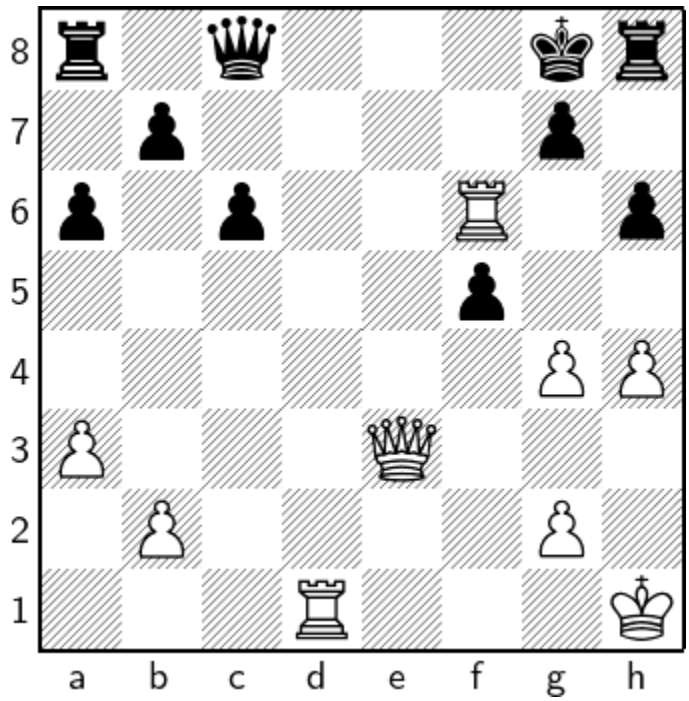

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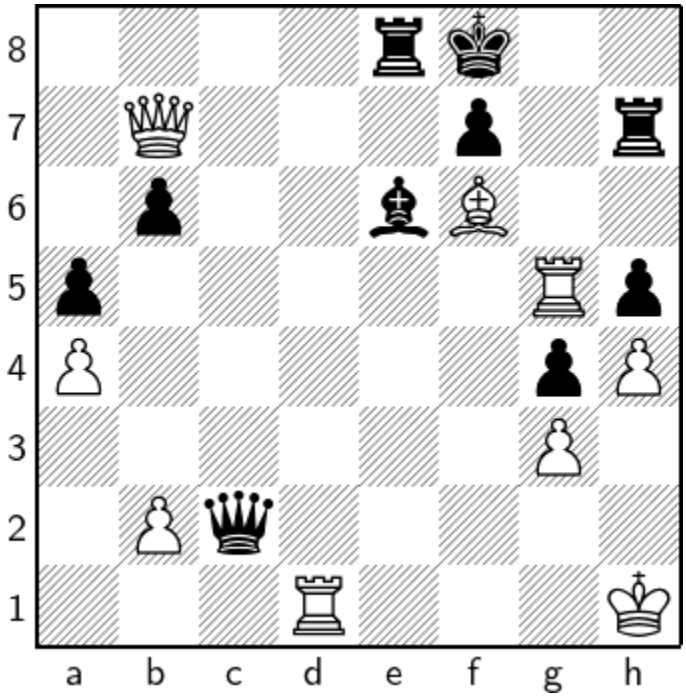
1…♕×d8 2 ♕e6+

2 ♕e6+ ♔h7 3 ♖×h6+ g×h6

3…g×h6 4 ♕f7#

1.4 ?

1.4.1 ?



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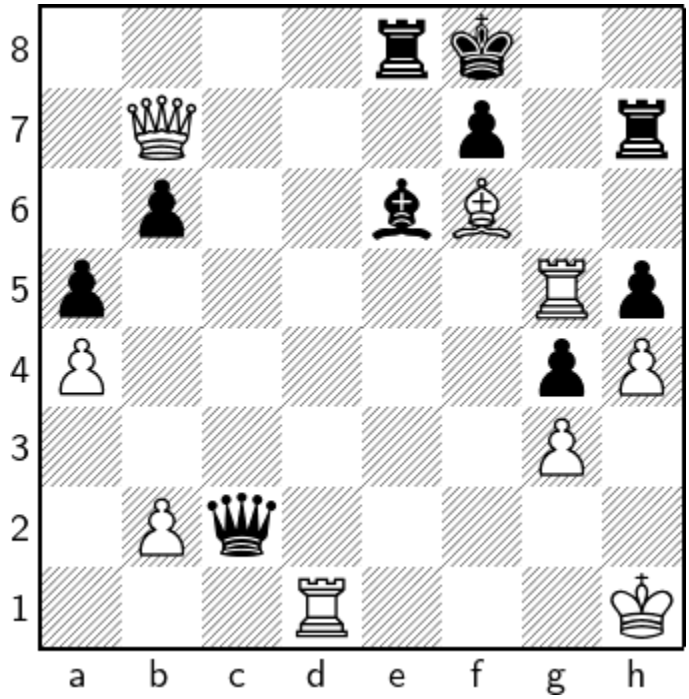


1 ♕e7+ ♖×e7

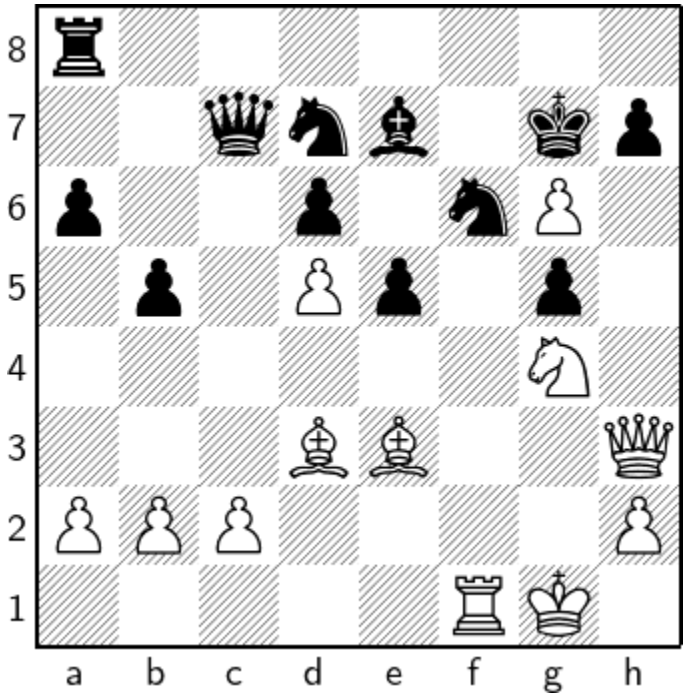
1…♖×e7 2 ♖d8+

2 ♖d8+ ♖e8 3 ♖g8+ ♔×g8

3…♔×g8 4 ♖×e8#

1.5 ?

1.5.1 ?



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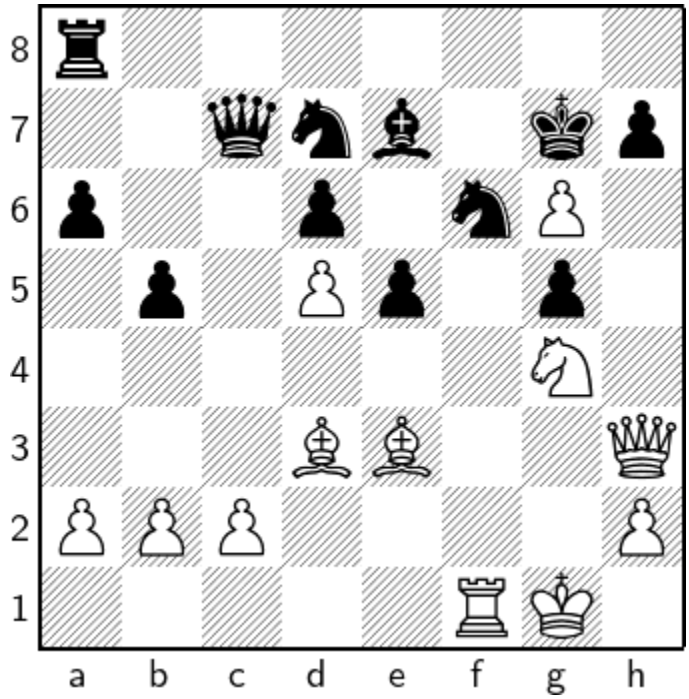


1 ♕×h7+ ♘×h7

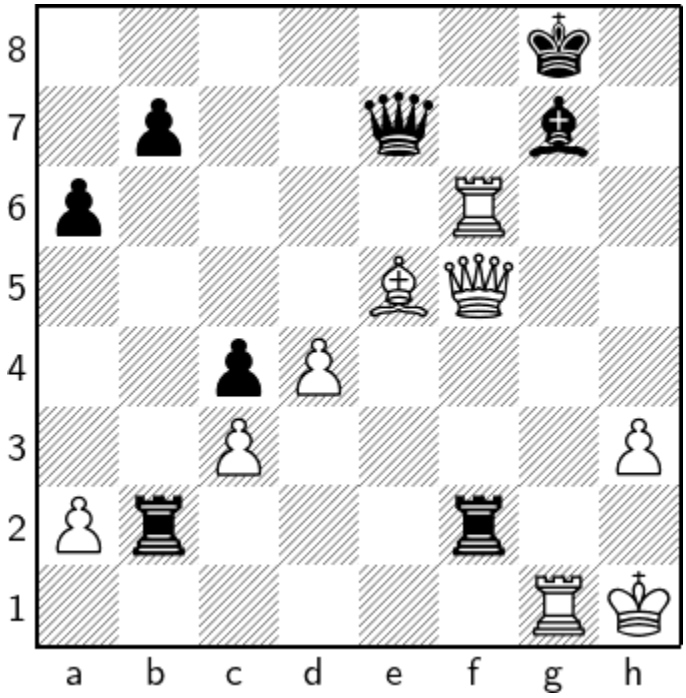
1…♘×h7 2 ♖f7+

2 ♖f7+ ♔h8 3 g7+

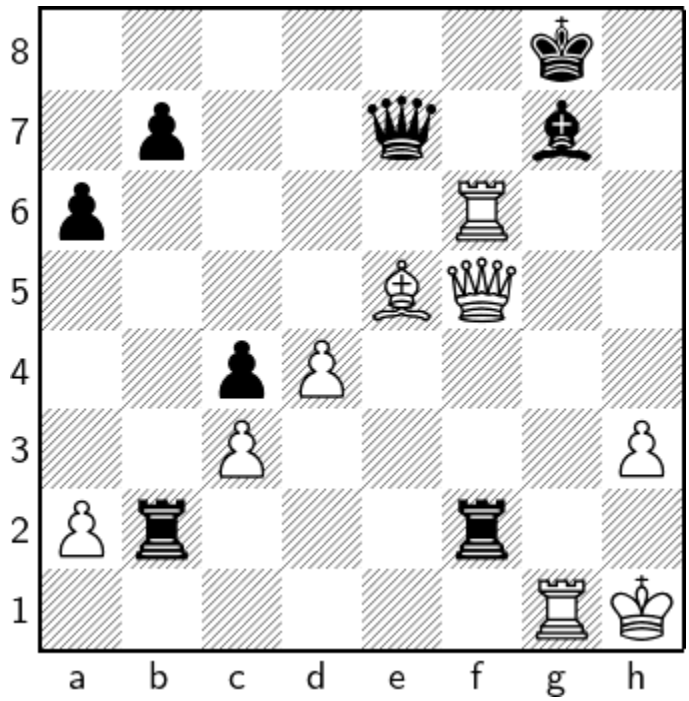
3 ♖×h7+ ♔g8 4 ♘h6+ ♔f8 5 g7+ ♔e8 6 ♗g6+ ♔d8 7 ♖h8+ ♘f8 8 ♖×f8+ ♗×f8 9 g×f8♕+ ♔d7 10 ♗f5#

1.6 ?

1.6.1 ?



1 ♖×g7+ ♕×g7 2 ♖f8+ ♕×f8 3 ♕g6+ ♕g7 4 ♕×g7#



1 ♖×g7+ ♕×g7

a) 1…♕×g7 2 ♖f8+

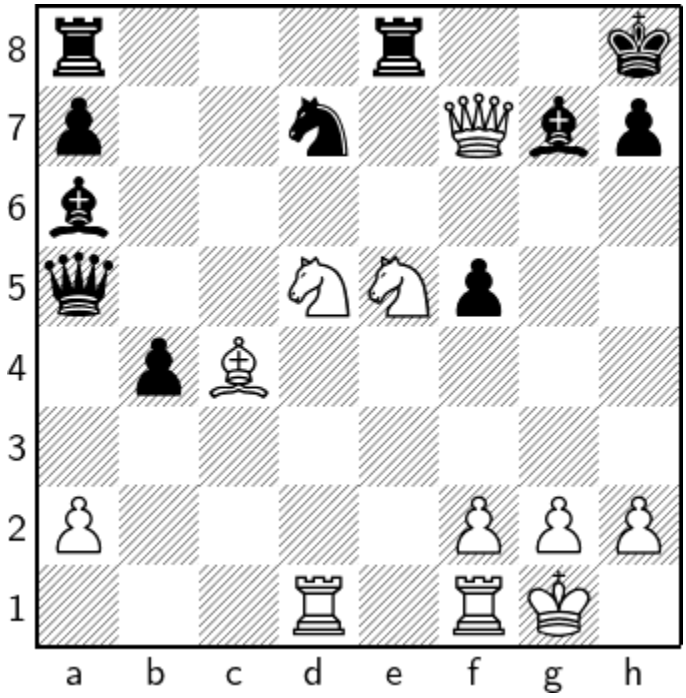
b) 1…♔×g7 2 ♕g6+

2 ♖f8+ ♕×f8

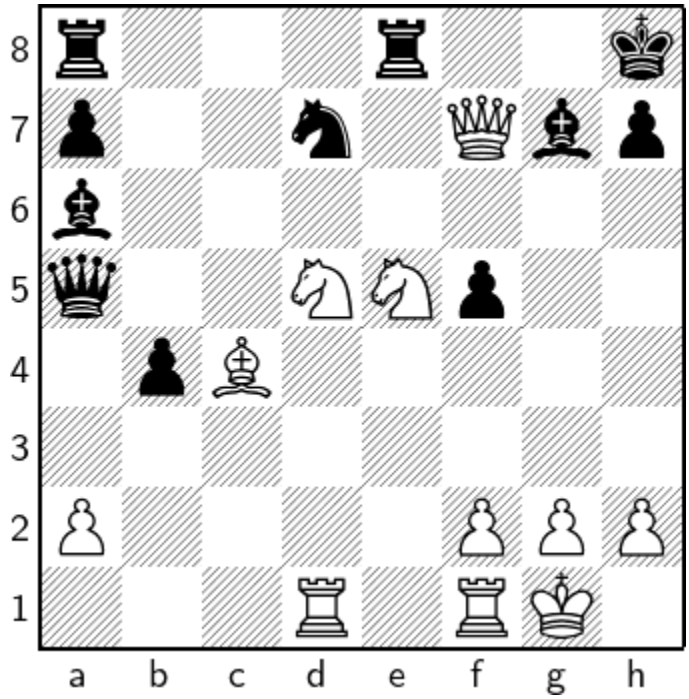
2…♕×f8 3 ♕g6+

1.7 ?

1.7.1 ?



1 ♕g8+ ♔×g8 2 ♘e7+ ♔f8 3 ♘5g6+ h×g6 4 ♘×g6#



1 ♕g8+

a) 1 ♘×d7 ♗×c4 2 ♕×f5 ♗×f1

b) 1 ♕×d7 ♖×e5 2 ♗×a6 ♖d8

1…♔×g8

a) 1…♖×g8 2 ♘f7#

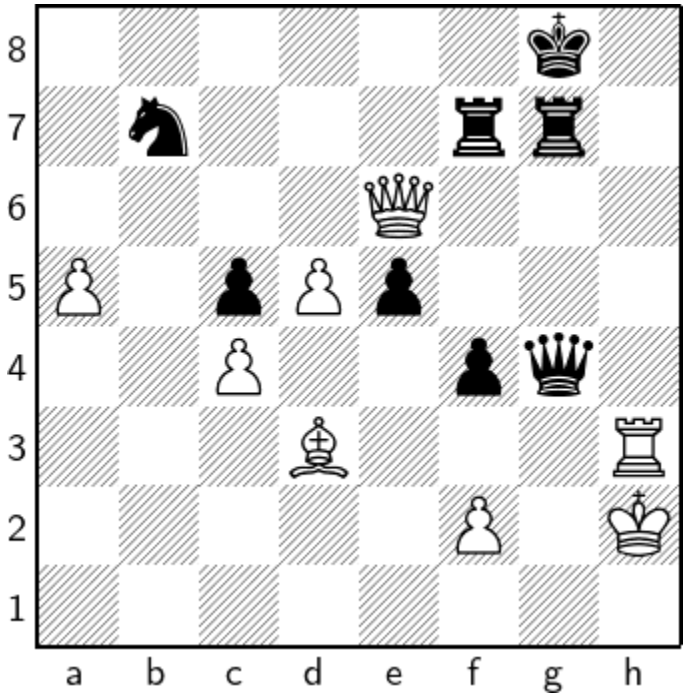
b) 1…♔×g8 2 ♘f6+

2 ♘e7+ ♔f8 3 ♘5g6+ h×g6

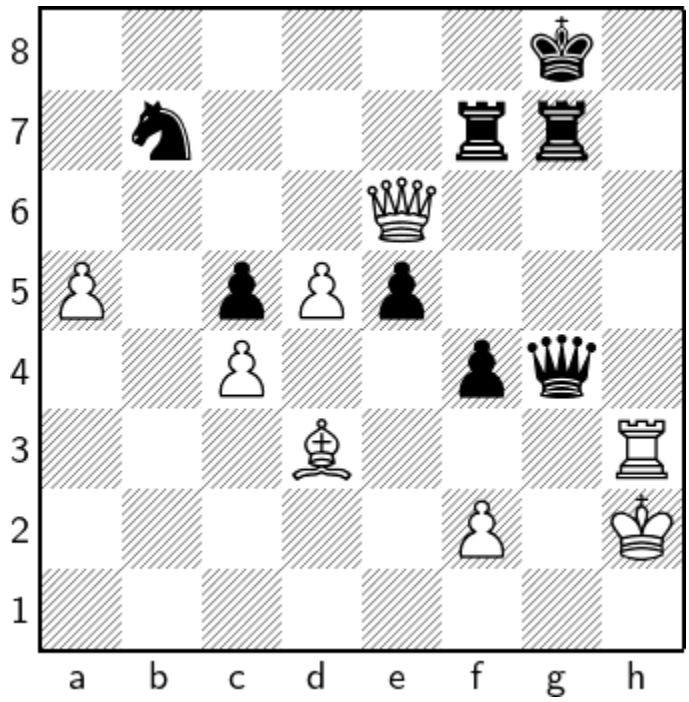
3…h×g6 4 ♘×g6#

1.8 ?

1.8.1 ?



1 ♕e8+ ♖f8 2 ♖h8+ ♔×h8 3 ♕×f8+ ♖g8 4 ♕h6#



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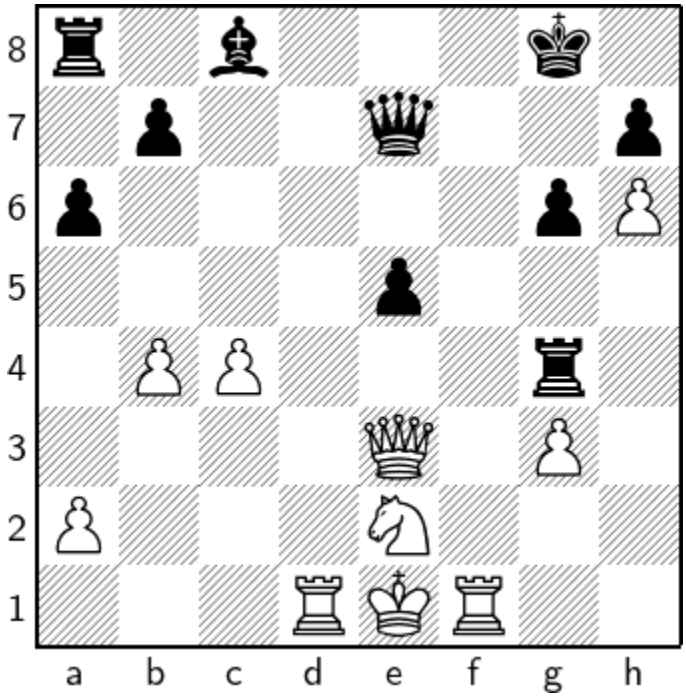
2…♔×h8 3 ♕×f8+

1.9 ?

1.9.1 ?



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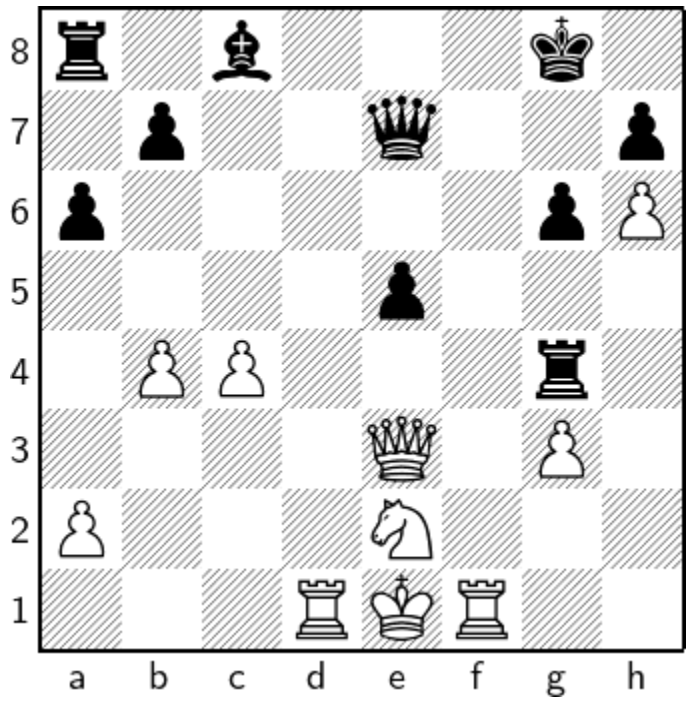


1 ♖d8+ ♕×d8

1…♕×d8 2 ♕×e5

2 ♕×e5 ♕d7

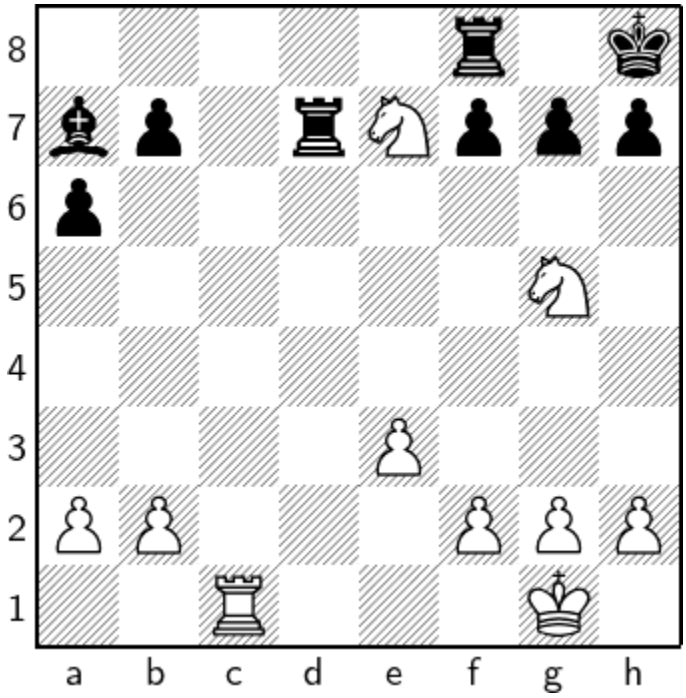
2…♕d2+ 3 ♔×d2 ♖d4+ 4 ♘×d4 a5 5 ♕g7#

3 ♕h8+ ♔×h8

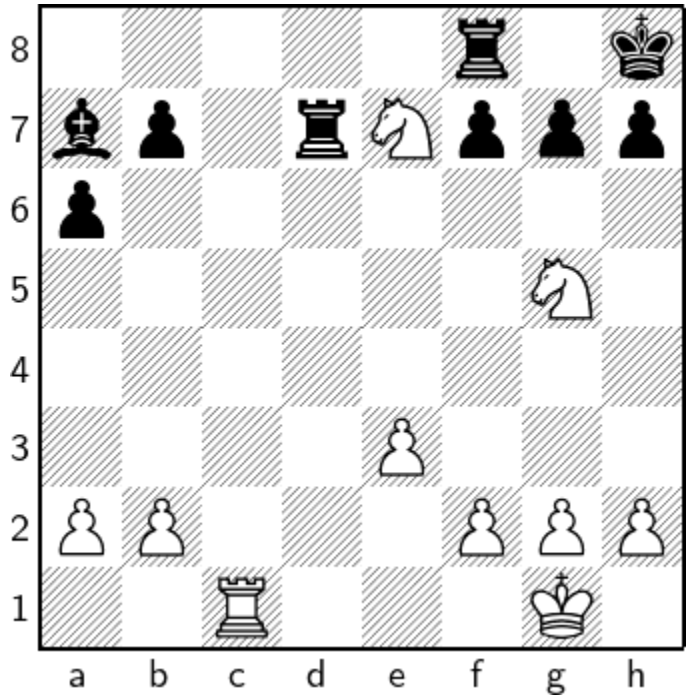
3…♔×h8 4 ♖f8#

1.10 ?

1.10.1 ?



1 ♘×f7+ ♖×f7 2 ♖c8+ ♖d8 3 ♖×d8+ ♖f8 4 ♖×f8#

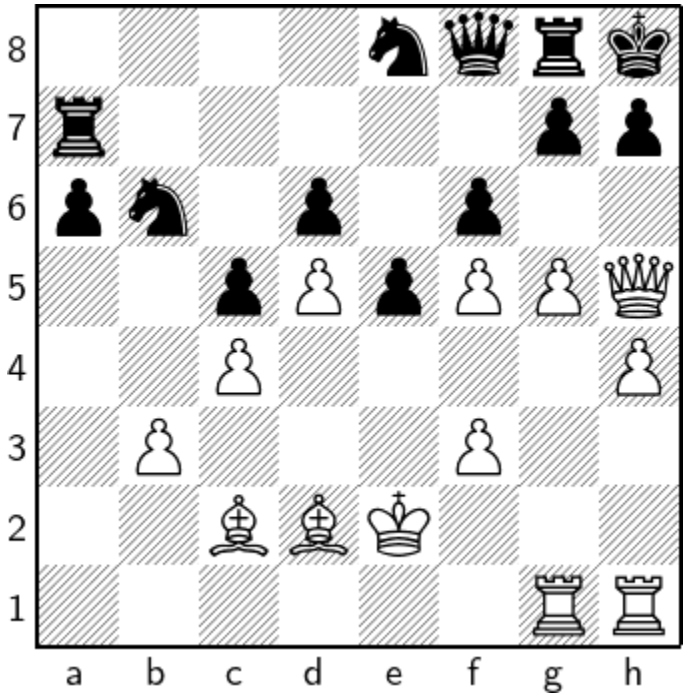


1 ♘×f7+ ♖×f7

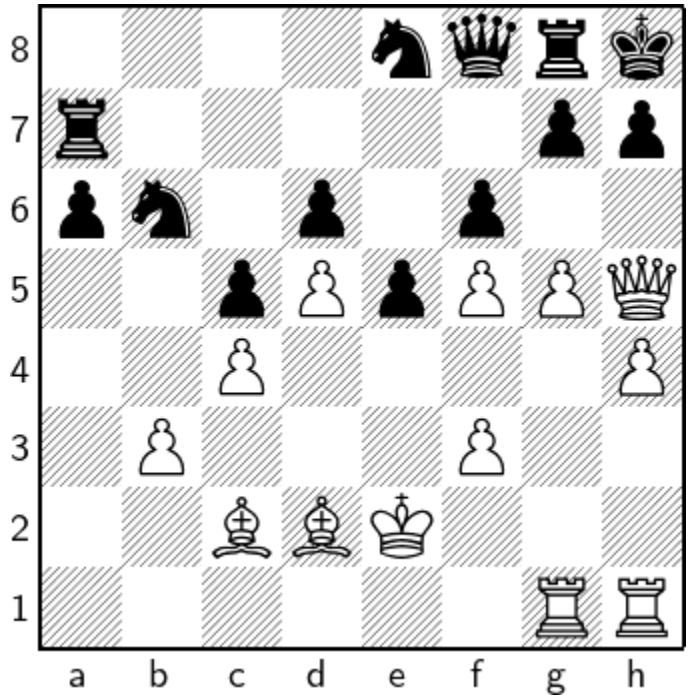
1…♖×f7 2 ♖c8+

1.11 ?

1.11.1 ?



1 ♕×h7+ ♔×h7 2 g6+ ♔h8 3 ♖g5 f×g5 4 h×g5#



1 ♕×h7+ ♔×h7

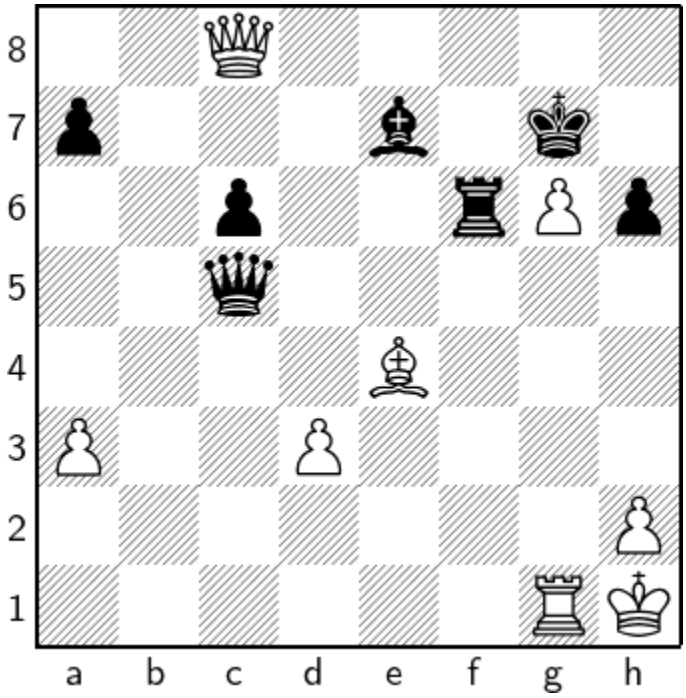
1…♔×h7 2 g6+

2 g6+ ♔h8 3 ♖g5 f×g5

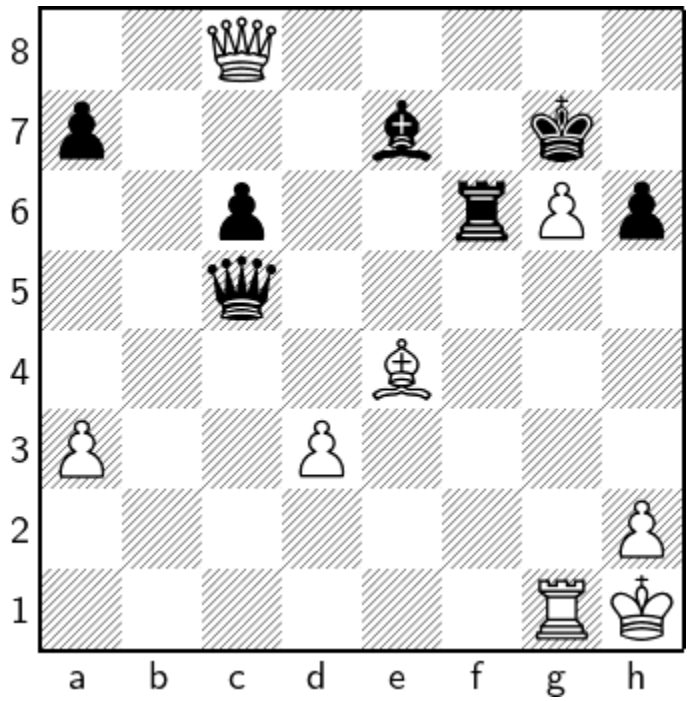
3…f×g5 4 h×g5#

1.12 ?

1.12.1 ?



1 ♕h8+ ♔×h8 2 g7+ ♔g8 3 ♗h7+ ♔×h7 4 g8♕#



1 ♕h8+ ♔×h8

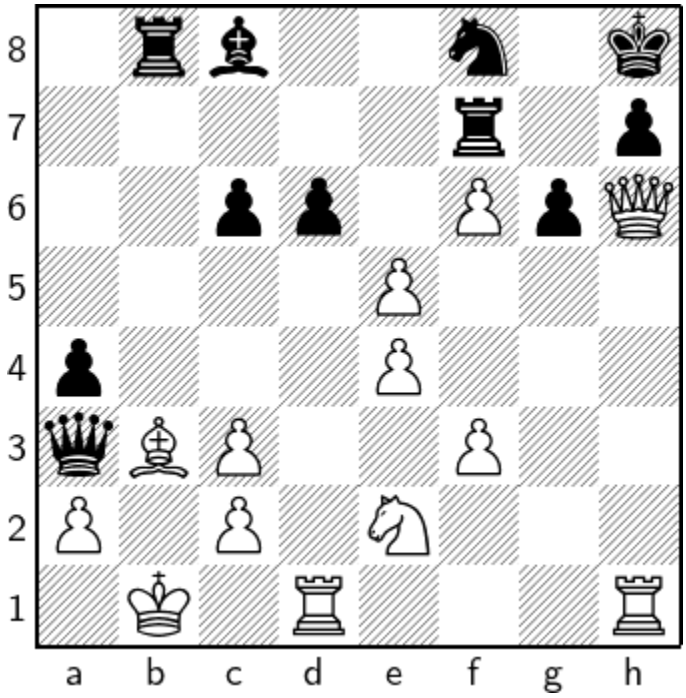
1…♔×h8 2 g7+

2 g7+ ♔g8 3 ♗h7+ ♔×h7

3…♔×h7 4 g8♕#

1.13 ?

1.13.1 ?



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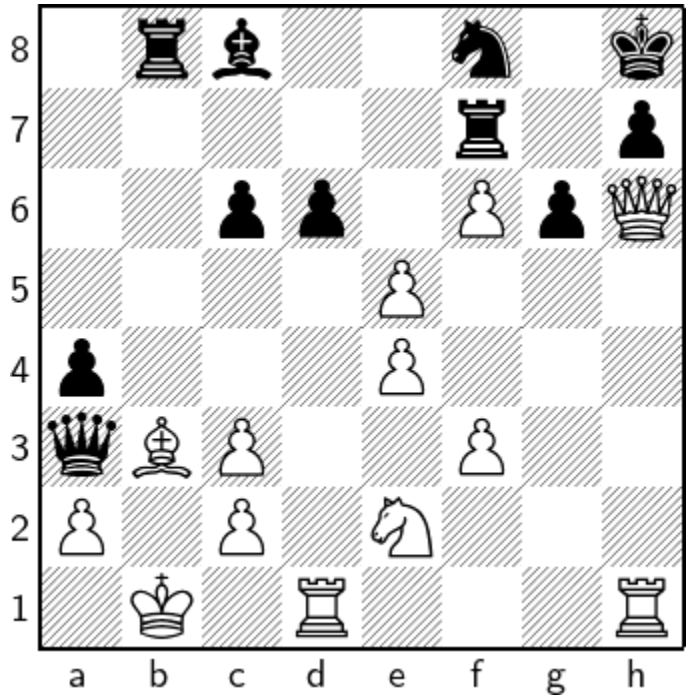


1 ♕×f8+ ♖×f8

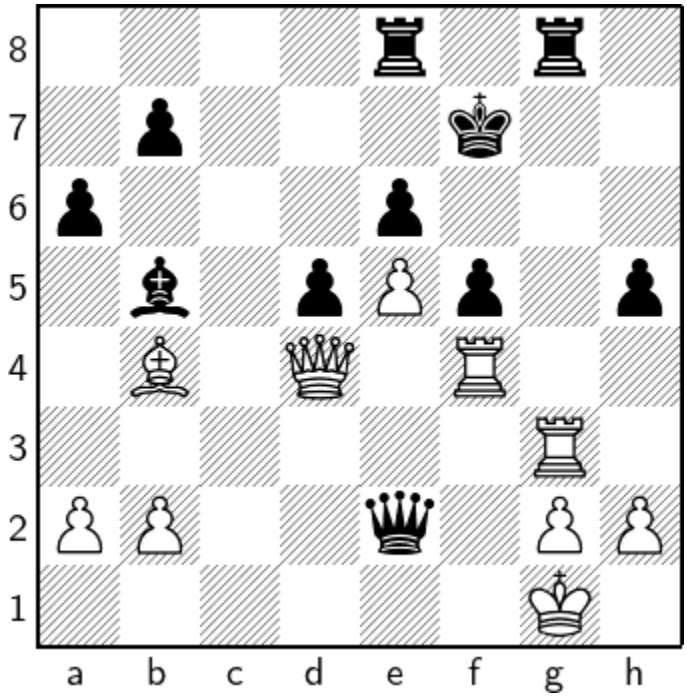
1…♖×f8 2 ♖×h7+

2 ♖×h7+ ♔×h7

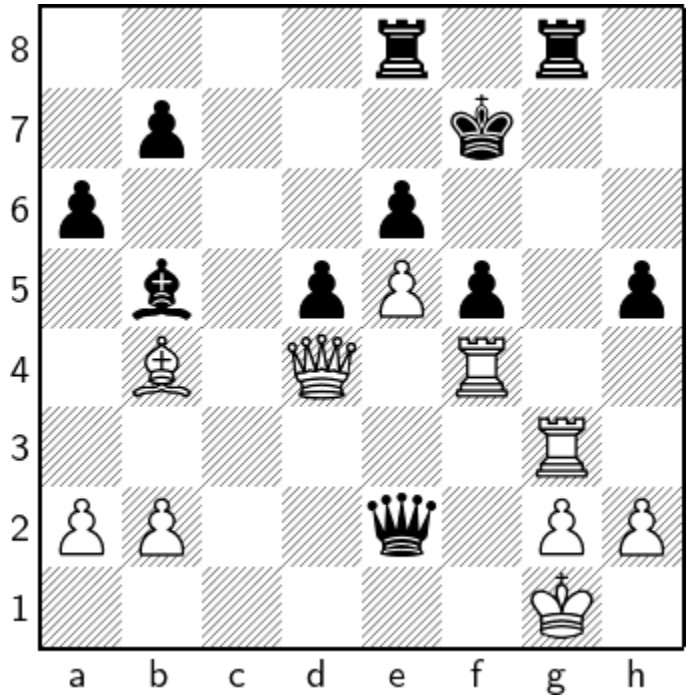
2…♔×h7 3 ♖h1+

1.14 ?

1.14.1 ?



1 ♖×f5+ e×f5 2 ♕×d5+ ♖e6 3 ♕×b7+ ♖e7 4 ♕×e7#



1 ♖×f5+ e×f5

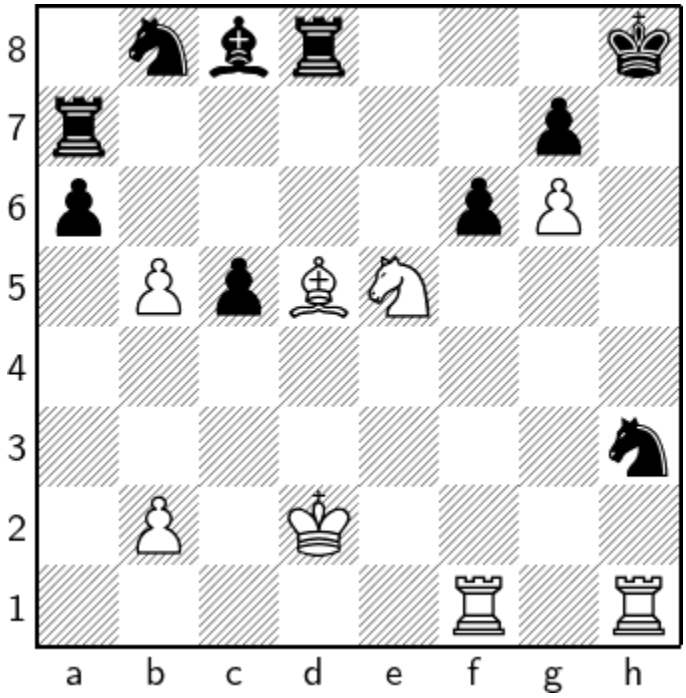
1…e×f5 2 ♕×d5+

2 ♕×d5+ ♖e6 3 ♕×b7+ ♖e7

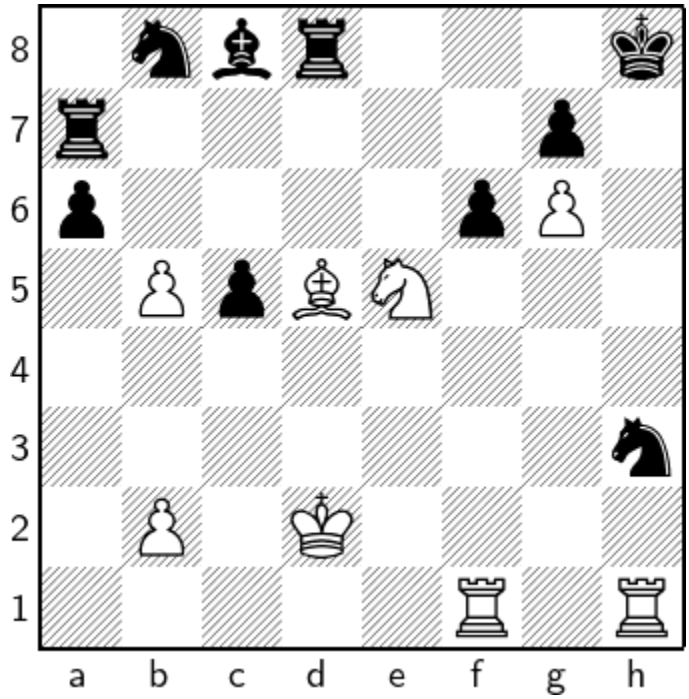
3…♗d7 4 ♕×d7+ ♖e7 5 ♕×e7#

1.15 ?

1.15.1 ?



1 ♘d7 ♗×d7 2 ♖f3 ♗e6 3 ♖f×h3+ ♔g8 4 ♖h8#



1 ♘d7 ♗×d7

a) 1…♖a×d7 2 ♖×h3#

b) 1…♘×d7 2 ♖×h3#

c) 1…♗×d7 2 ♖f3

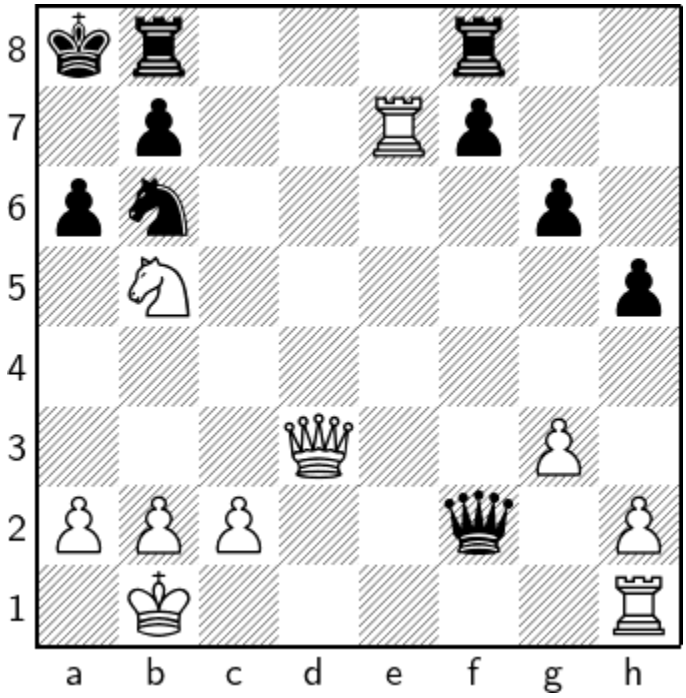
d) 1…♖d×d7 2 ♖×h3#

2 ♖f3 ♗e6

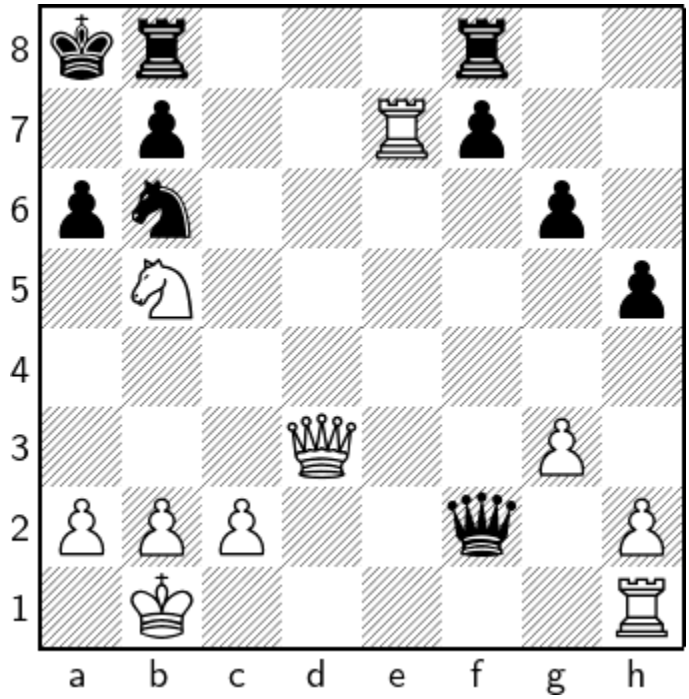
2…c4 3 ♖f×h3+ ♗×h3 4 ♖×h3#

1.16 ?

1.16.1 ?



1 ♘c7+ ♔a7 2 ♕×a6+ b×a6 3 ♘b5+ ♔a8 4 ♖a7#

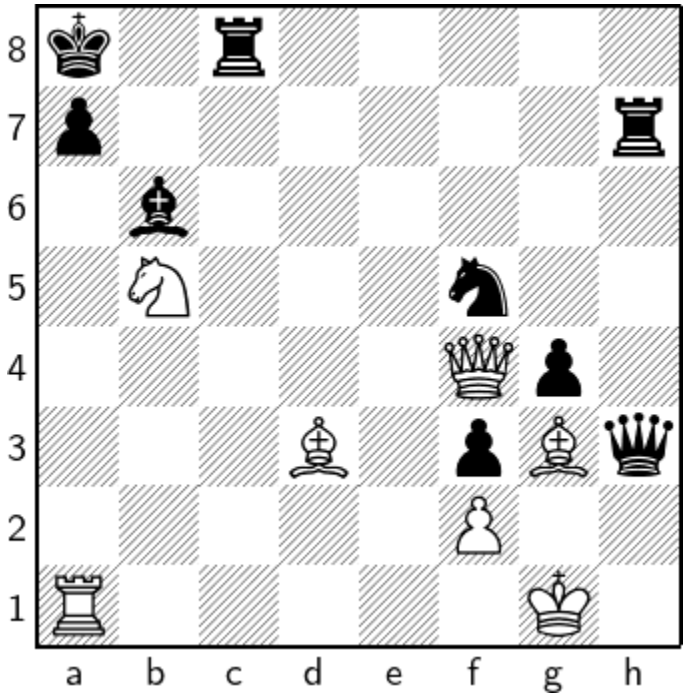


1 ♘c7+ ♔a7 2 ♕×a6+ b×a6

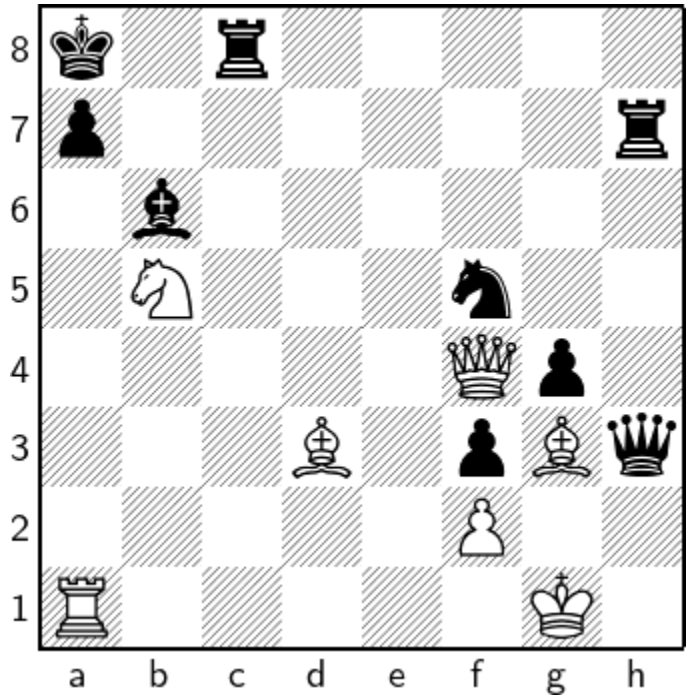
2…b×a6 3 ♘b5+

1.17 ?

1.17.1 ?



1 ♗e4+ ♖b7 2 ♕b8+ ♖×b8 3 ♖×a7+ ♗×a7 4 ♘c7#



1 ♗e4+ ♖b7 2 ♕b8+ ♖×b8

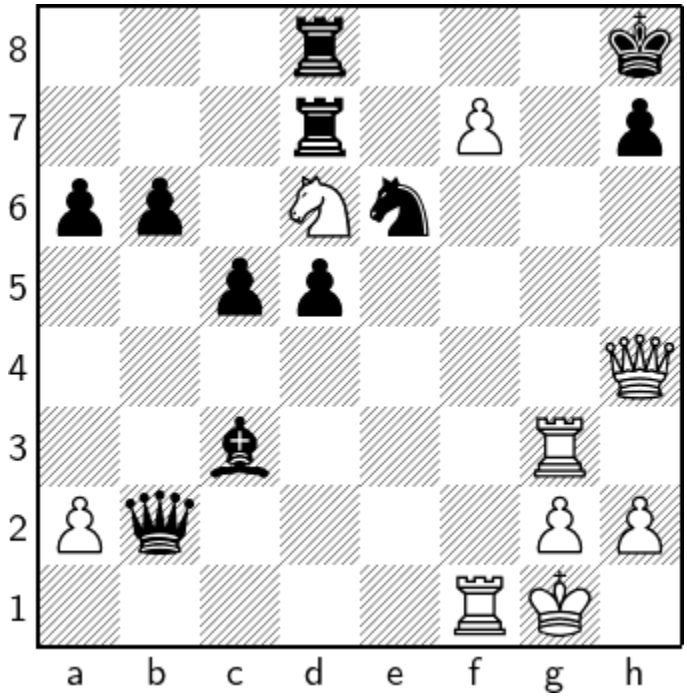
2…♖×b8 3 ♖×a7+

3 ♖×a7+ ♗×a7

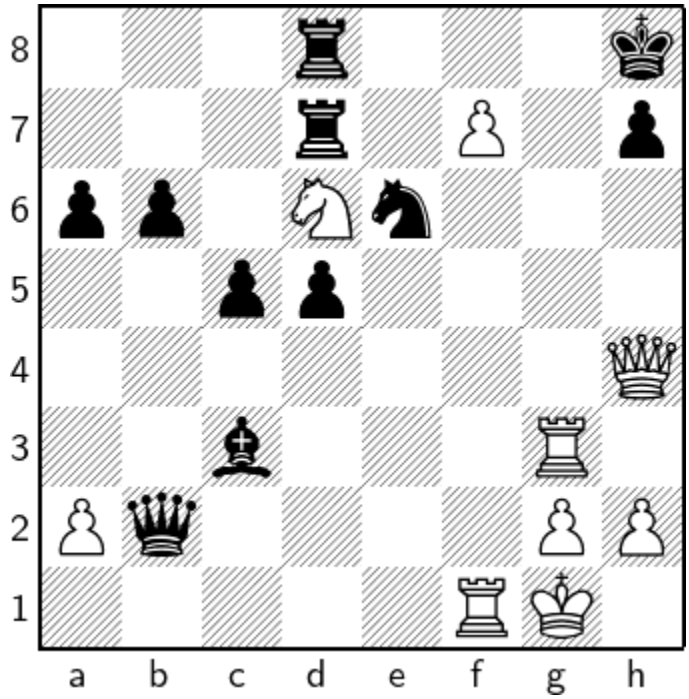
3…♗×a7 4 ♘c7#

1.18 ?

1.18.1 ?



1 ♕×d8+ ♖×d8 2 f8♕+ ♖×f8 3 ♖×f8+ ♘×f8 4 ♘f7#



1 ♕×d8+ ♖×d8

a) 1…♖×d8 2 f8♕+

b) 1…♘×d8 2 f8♕#

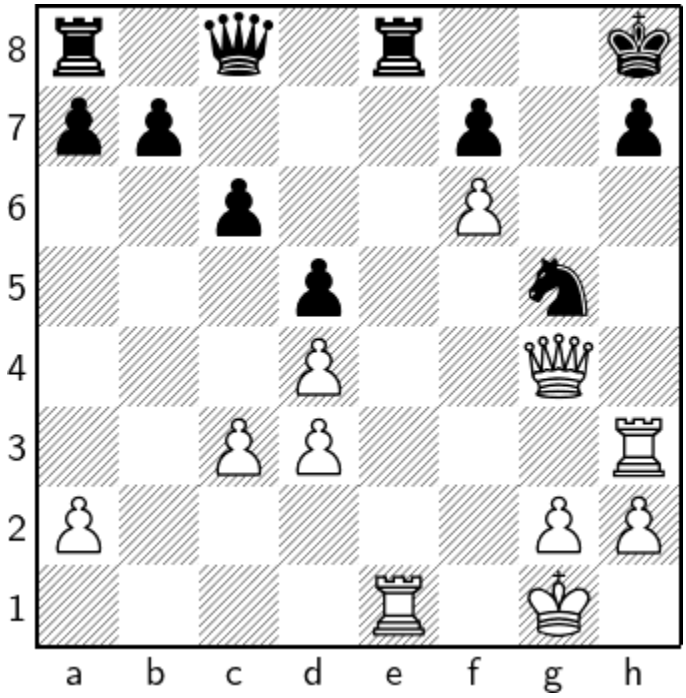
2 f8♕+ ♖×f8

a) 2…♖×f8 3 ♖×f8+

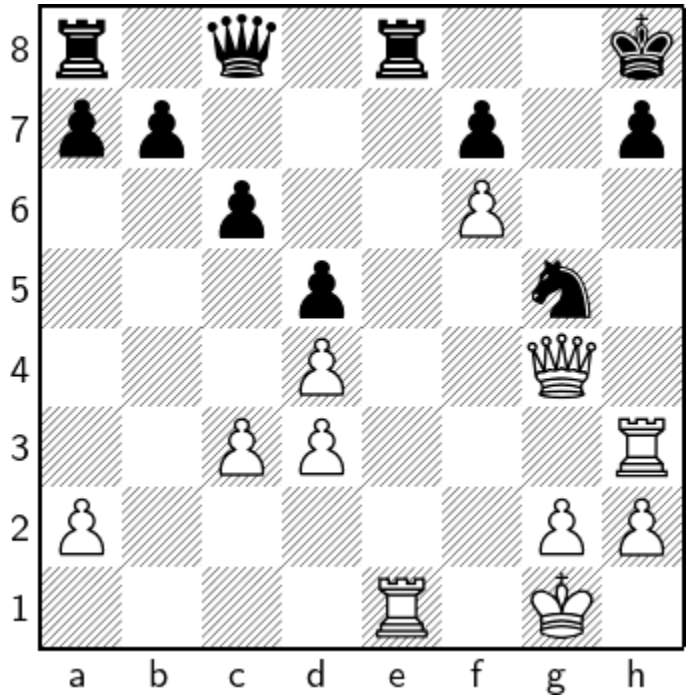
b) 2…♘×f8 3 ♘f7#

1.19 ?

1.19.1 ?



1 ♖×h7+ ♔×h7 2 ♕h5+ ♔g8 3 ♕×g5+ ♔f8 4 ♕g7#



1 ♖×h7+ ♔×h7

a) 1…♘×h7 2 ♕g7#

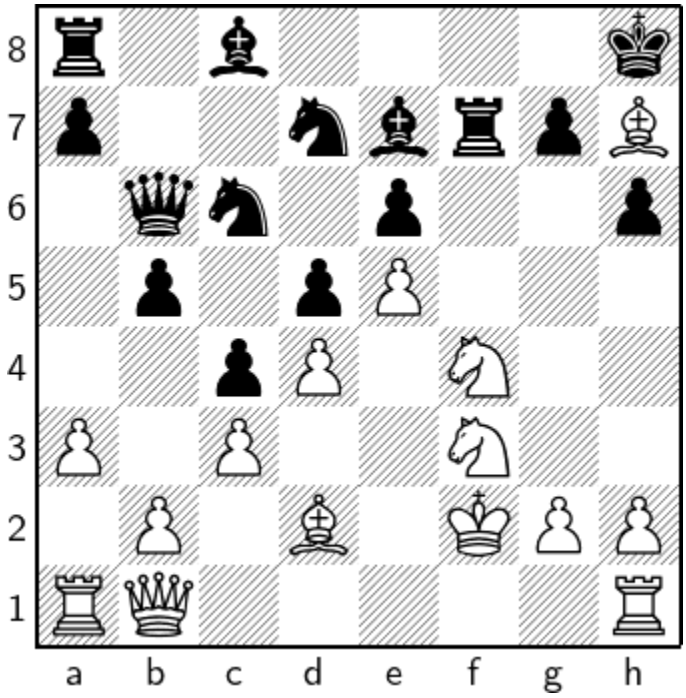
b) 1…♔×h7 2 ♕h5+

2 ♕h5+ ♔g8 3 ♕×g5+ ♔f8

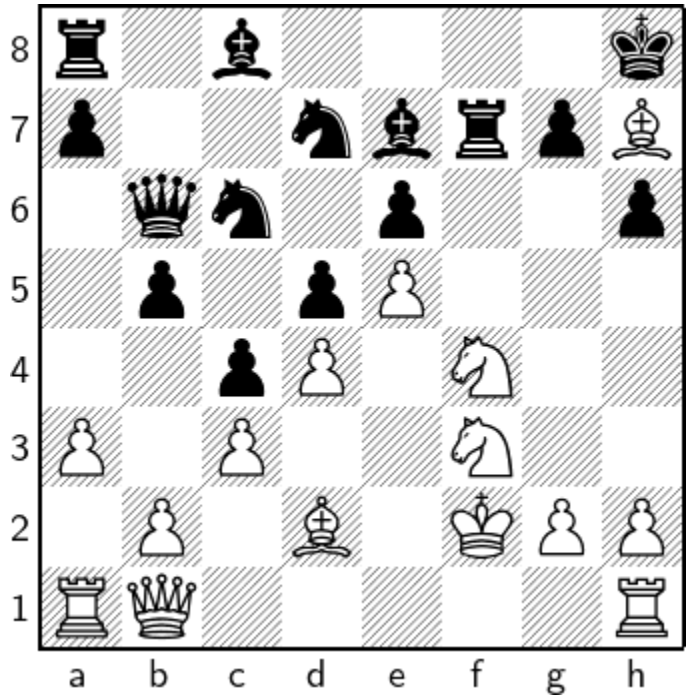
3…♔h7 4 ♕g7#

1.20 ?

1.20.1 ?

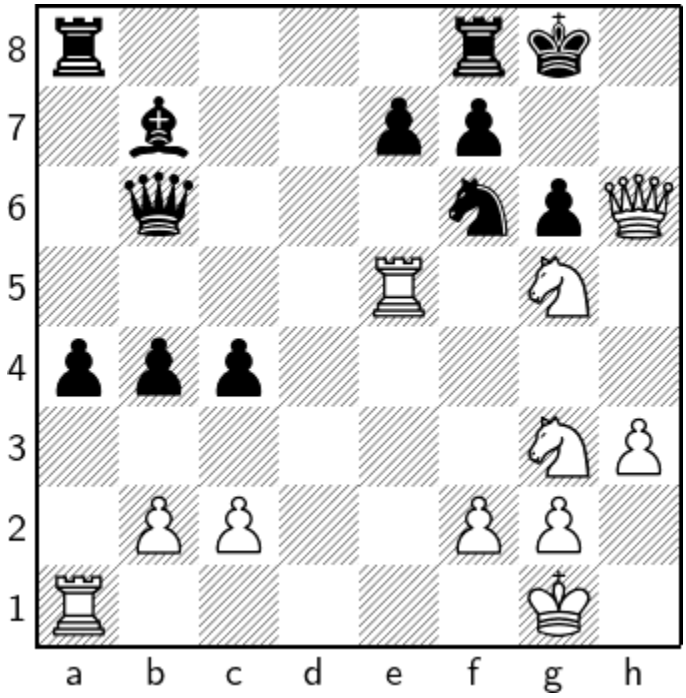


1 ♘g6+ ♔×h7 2 ♘f8+ ♔g8 3 ♕h7+ ♔×f8 4 ♕h8#

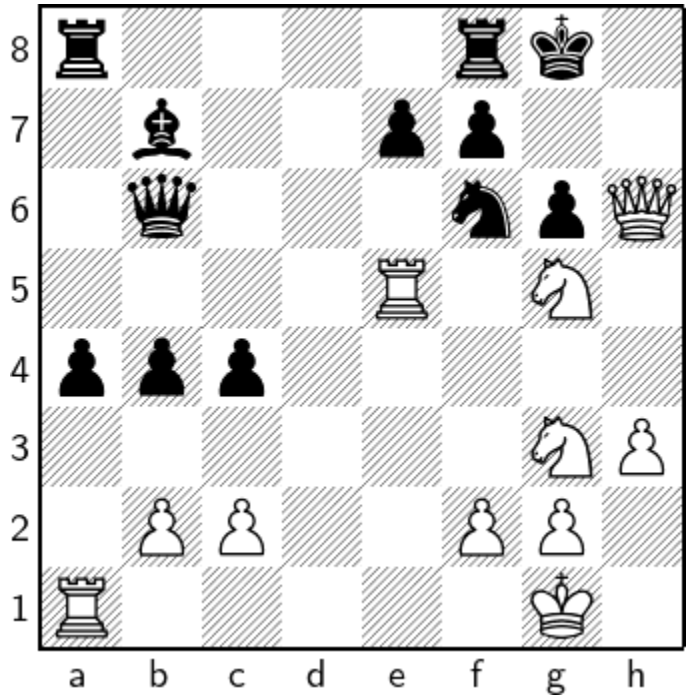


1.21 ?

1.21.1 ?



1 ♘h5 g×h5 2 ♘e6 f×e6 3 ♖g5+ ♔f7 4 ♕g6#



1 ♘h5 g×h5

a) 1…♘×h5 2 ♕h7#

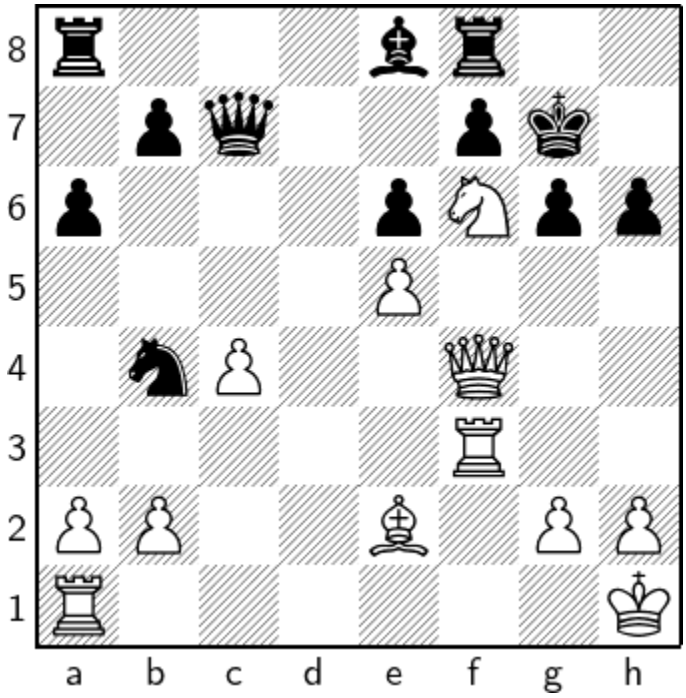
b) 1…g×h5 2 ♘e6

2 ♘e6 f×e6

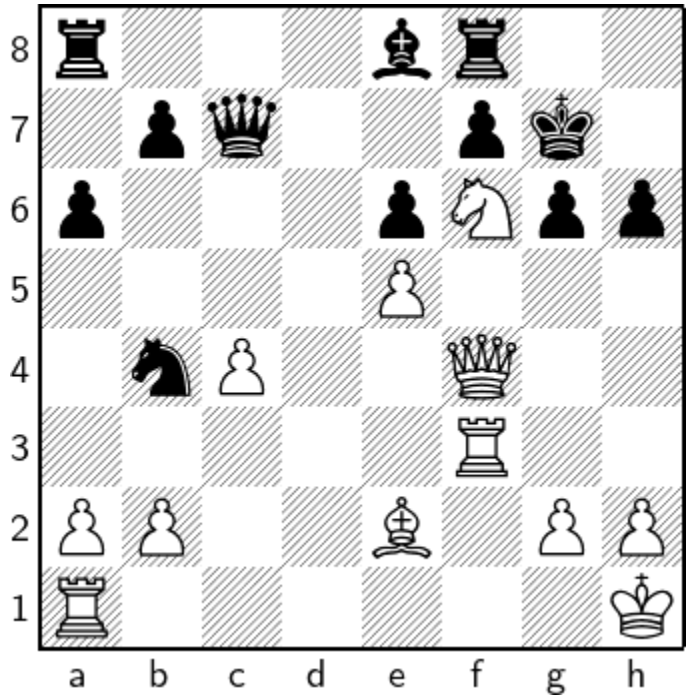
2…f×e6 3 ♖g5+

1.22 ?

1.22.1 ?



1 ♕×h6+ ♔×h6 2 ♖h3+ ♔g5 3 ♖f1 ♕×e5 4 ♘h7#



1 ♕×h6+ ♔×h6

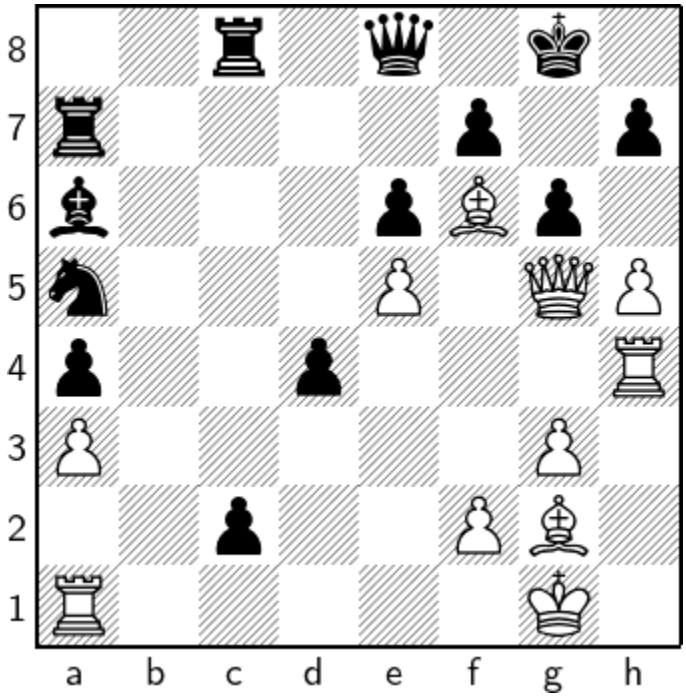
1…♔×h6 2 ♖h3+

2 ♖h3+ ♔g5 3 ♖f1 ♕×e5

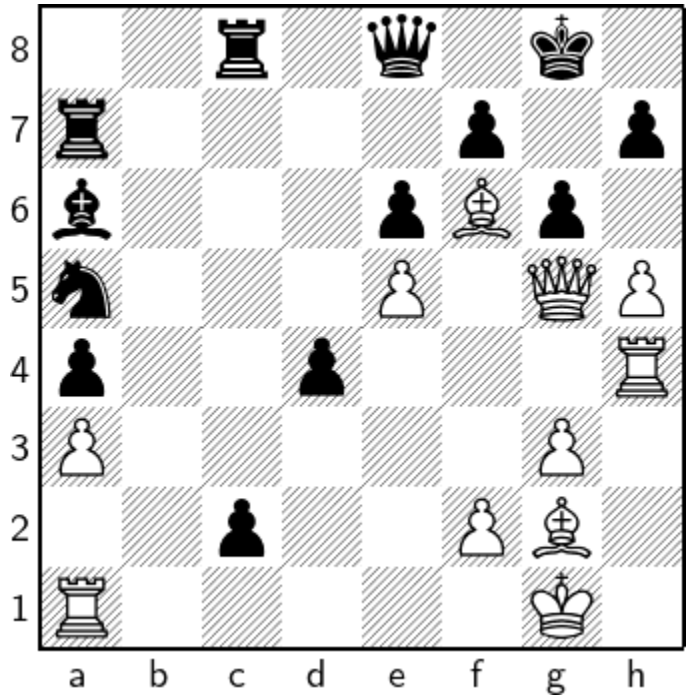
3…a5 4 ♘e4#

1.23 ?

1.23.1 ?



1 ♕h6 ♕f8 2 ♕×h7+ ♔×h7 3 h×g6+ ♔×g6 4 ♗e4#



1 ♕h6 ♕f8

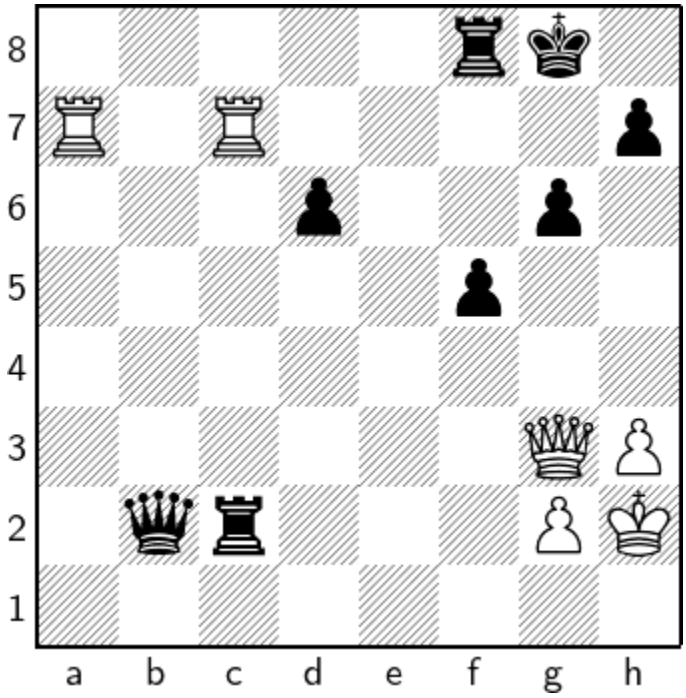
1…c1♕+ 2 ♖×c1 ♖×c1+ 3 ♔h2 ♖h1+ 4 ♔×h1 ♕f8 5 ♕×h7+ ♔×h7 6 h×g6+ ♔×g6 7 ♗e4#

2 ♕×h7+ ♔×h7

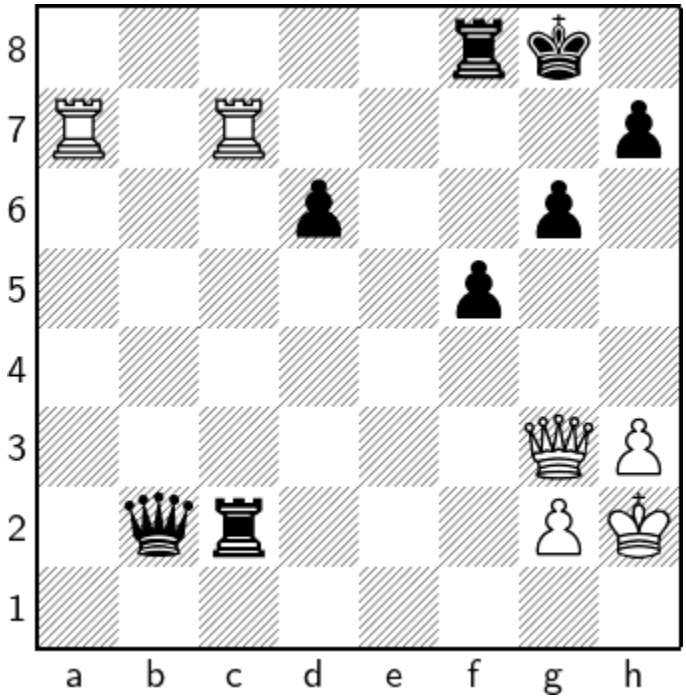
2…♔×h7 3 h×g6+

1.24 ?

1.24.1 ?



1 ♕b3+ ♕×b3 2 ♖g7+ ♔h8 3 ♖×h7+ ♔g8 4 ♖ag7#

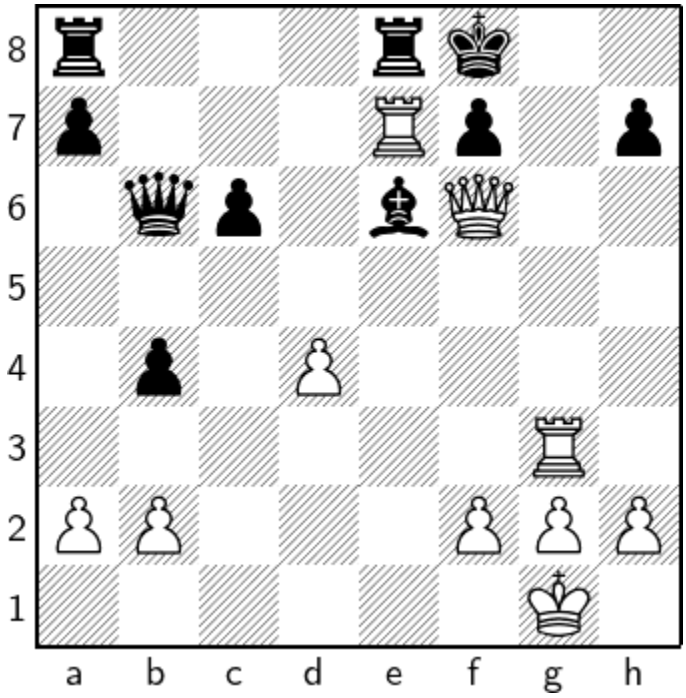


1 ♕b3+ ♕×b3

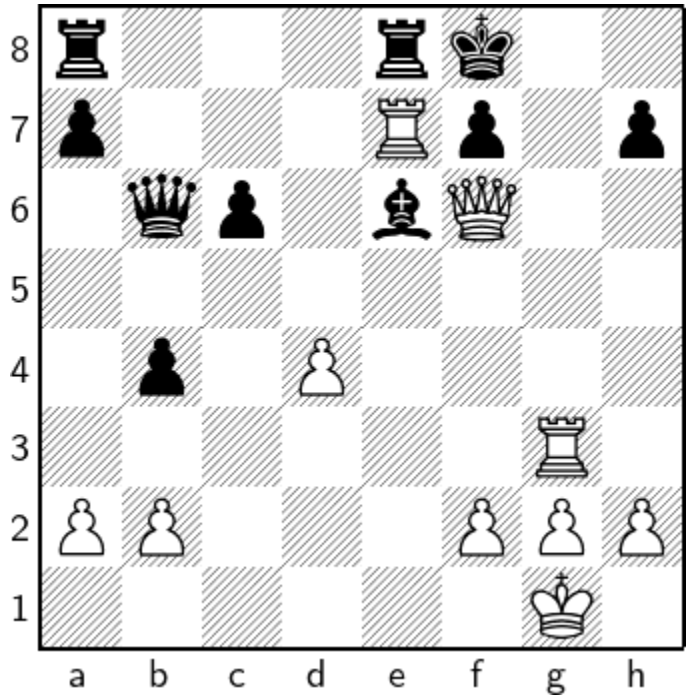
1…♕×b3 2 ♖g7+

1.25 ?

1.25.1 ?



1 ♖d7 ♗×d7 2 ♕d6+ ♖e7 3 ♕h6+ ♔e8 4 ♖g8#

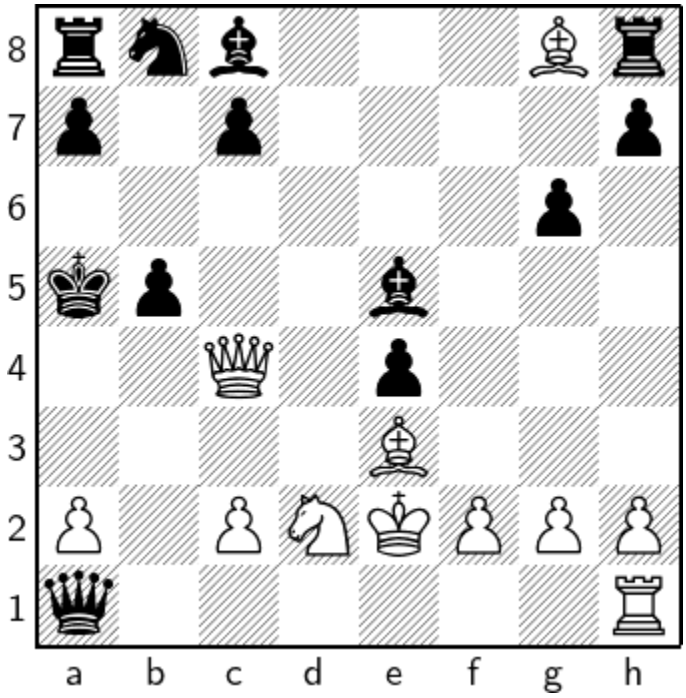


1 ♖d7 ♗×d7

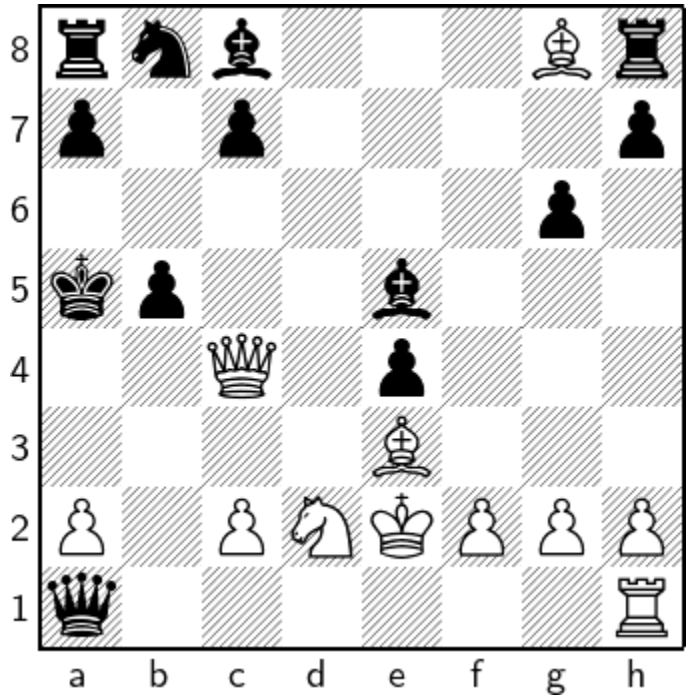
1…♗×d7 2 ♕d6+

1.26 ?

1.26.1 ?



1 ♘b3+ ♔a6 2 ♕a4+ b×a4 3 ♗c4+ ♔b7 4 ♘a5#



1 ♘b3+ ♔a6 2 ♕a4+

2 ♘×a1 b×c4 3 ♗×c4+ ♔b7

2…b×a4

2…b×a4 3 ♗c4+

3 ♗c4+

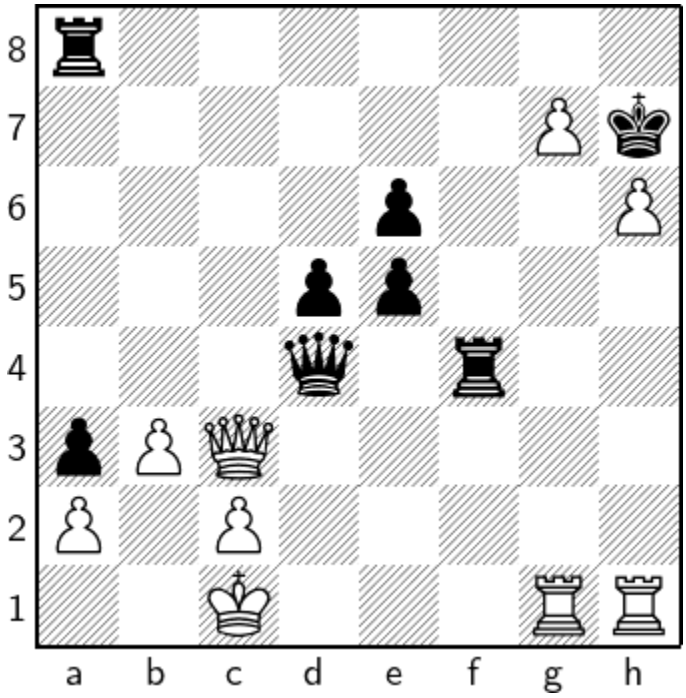
3 ♘×a1 ♖×g8 4 c3 ♗e6

3…♔b7 4 ♘a5#

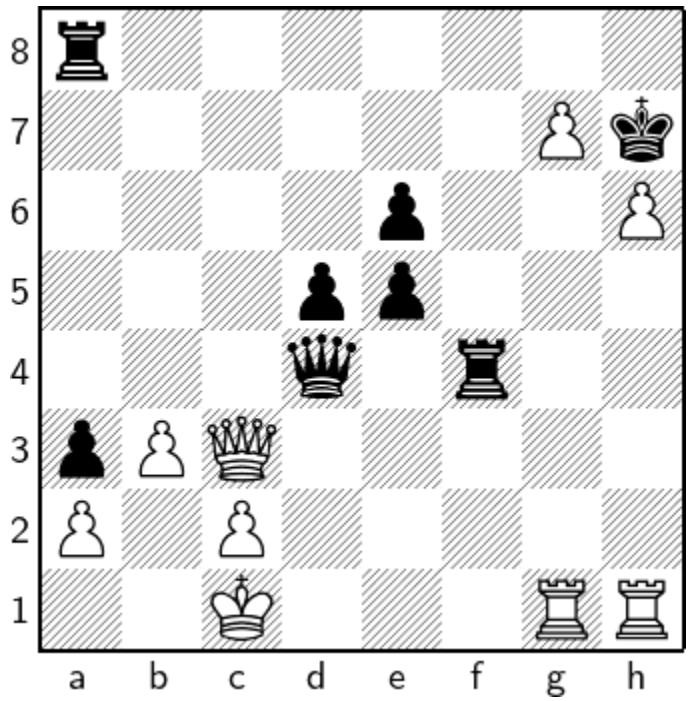
4 ♘×a1 c6

1.27 ?

1.27.1 ?



1 g8♕+ ♖×g8 2 ♕c7+ ♔h8 3 ♖×g8+ ♔×g8 4 ♕g7#



1 g8♕+ ♖×g8

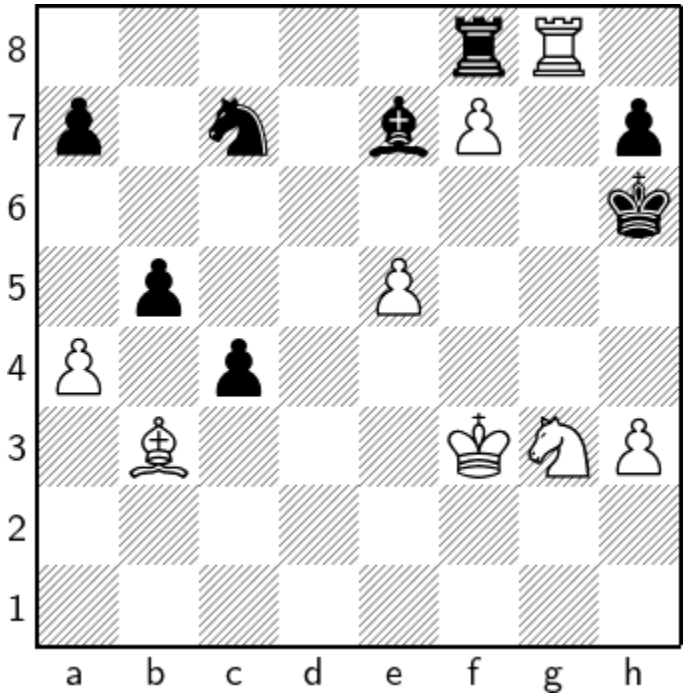
1…♖×g8 2 ♕c7+

2 ♕c7+ ♔h8

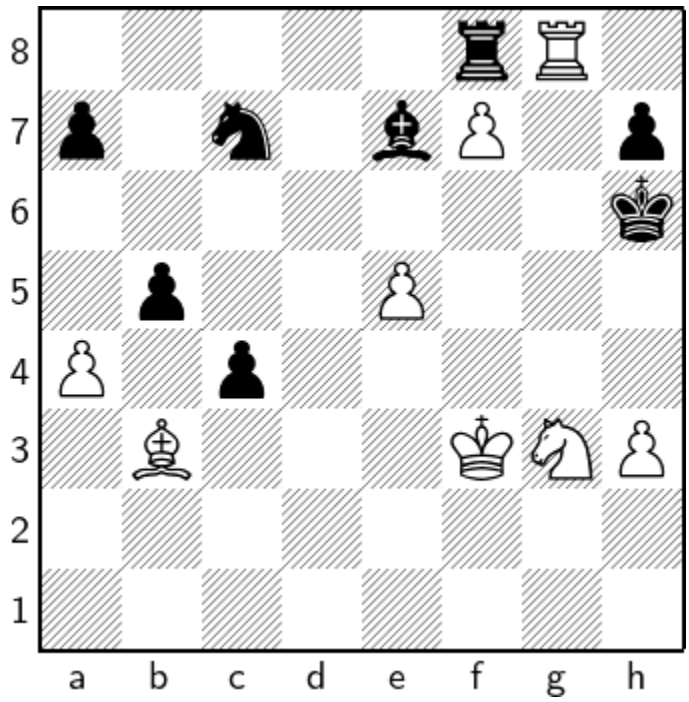
2…♖f7 3 ♕×f7+ ♖g7 4 ♕×g7#

1.28 ?

1.28.1 ?



1 ♘f5+ ♔h5 2 ♗d1 ♖×g8 3 f×g8♕



1 ♘f5+ ♔h5 2 ♗d1 ♖×g8

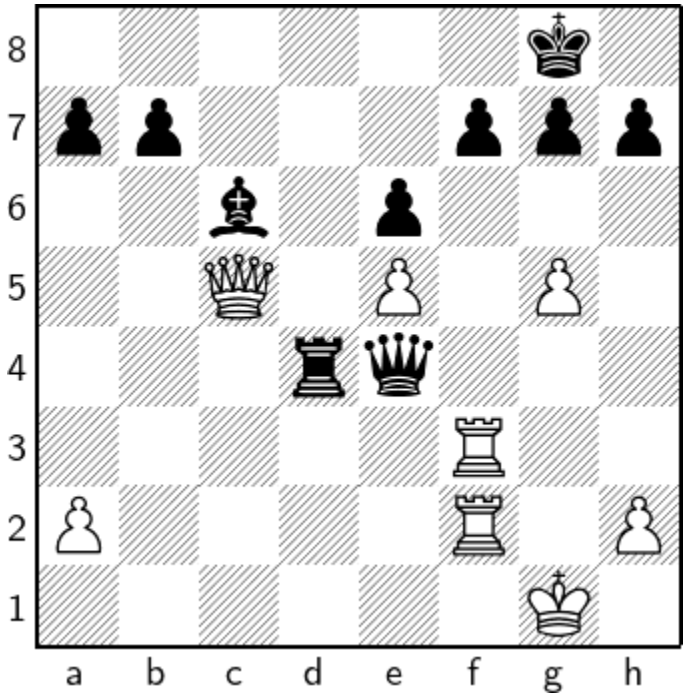
2…♖d8 3 f8♕ ♗×f8 4 ♔f4+ ♖×d1 5 ♖g5#

3 f×g8♕

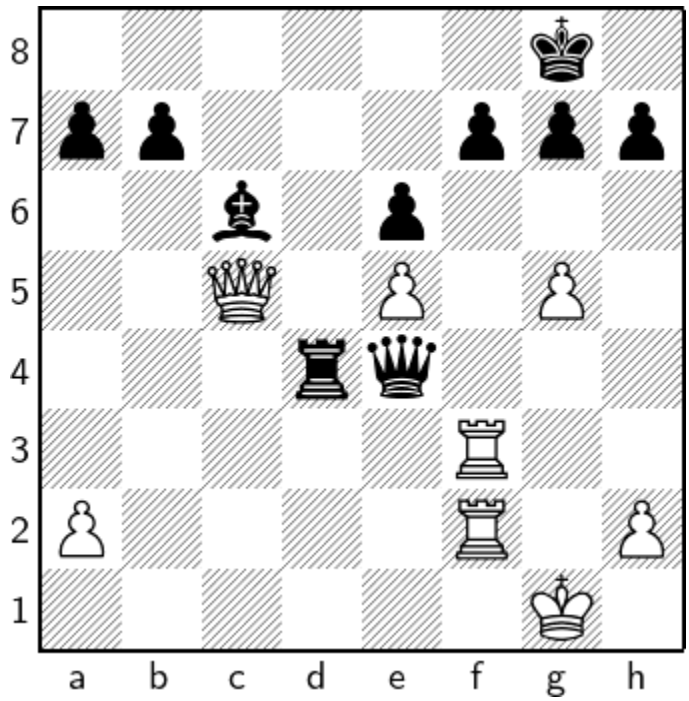
3 ♘×e7 ♖f8 4 ♔g3+ ♔g5 5 h4+ ♔h6 6 ♘f5+ ♔g6

1.29 ?

1.29.1 ?



1 ♕f8+ ♔×f8 2 ♖×f7+ ♔e8 3 ♖f8+ ♔e7 4 ♖2f7#



1 ♕f8+ ♔×f8

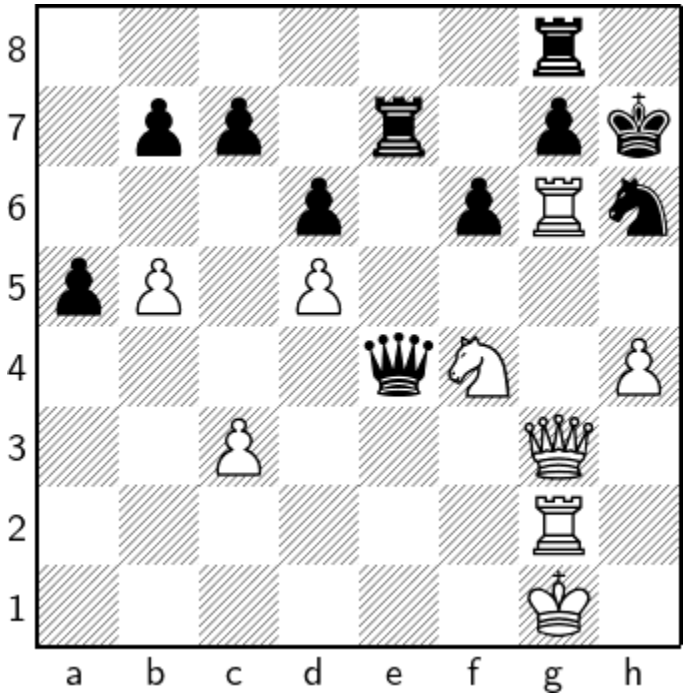
1…♔×f8 2 ♖×f7+

2 ♖×f7+ ♔e8 3 ♖f8+ ♔e7

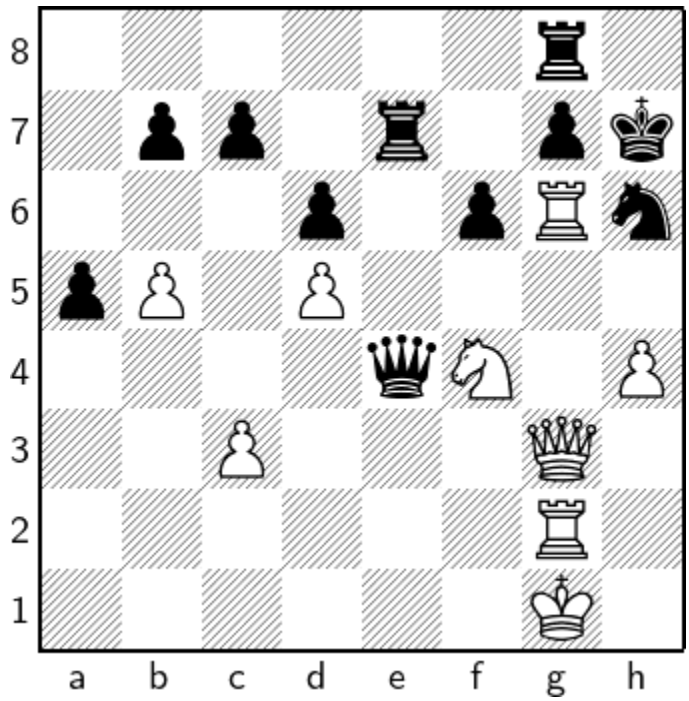
3…♔d7 4 ♖2f7#

1.30 ?

1.30.1 ?



1 ♖×h6+ ♔×h6 2 ♕g5+ f×g5 3 h×g5+ ♔h7 4 ♖h2#



1 ♖×h6+ ♔×h6

a) 1…g×h6 2 ♕×g8#

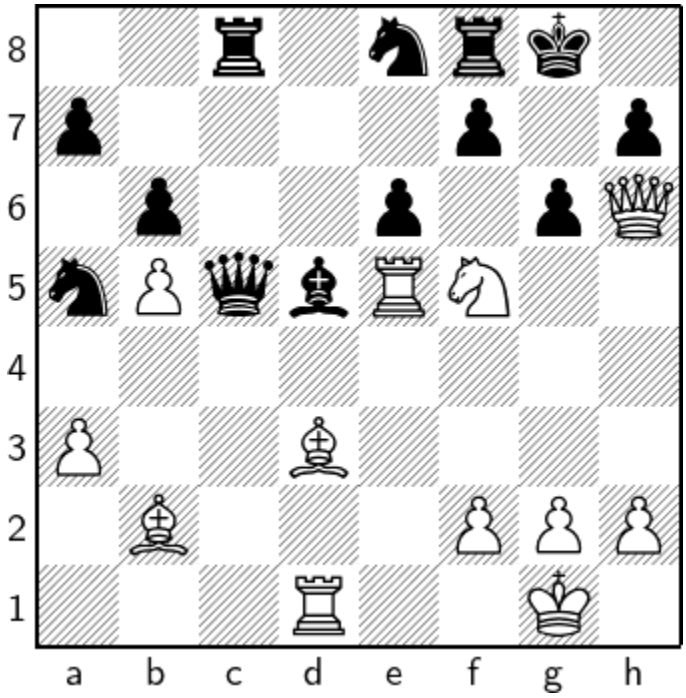
b) 1…♔×h6 2 ♕g5+

2 ♕g5+ f×g5

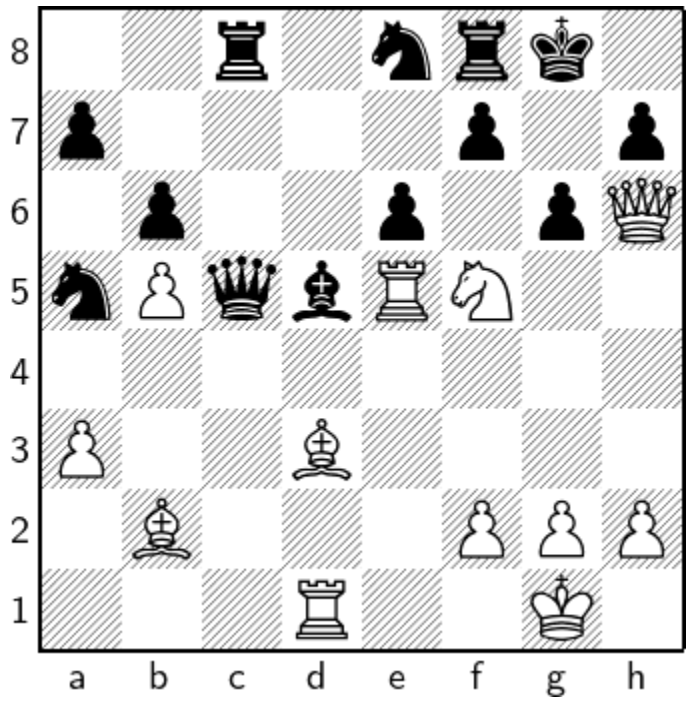
2…f×g5 3 h×g5+

1.31 ?

1.31.1 ?



1 ♘e7+ ♕×e7 2 ♕×h7+ ♔×h7 3 ♖h5+ ♔g8 4 ♖h8#



1 ♘e7+ ♕×e7

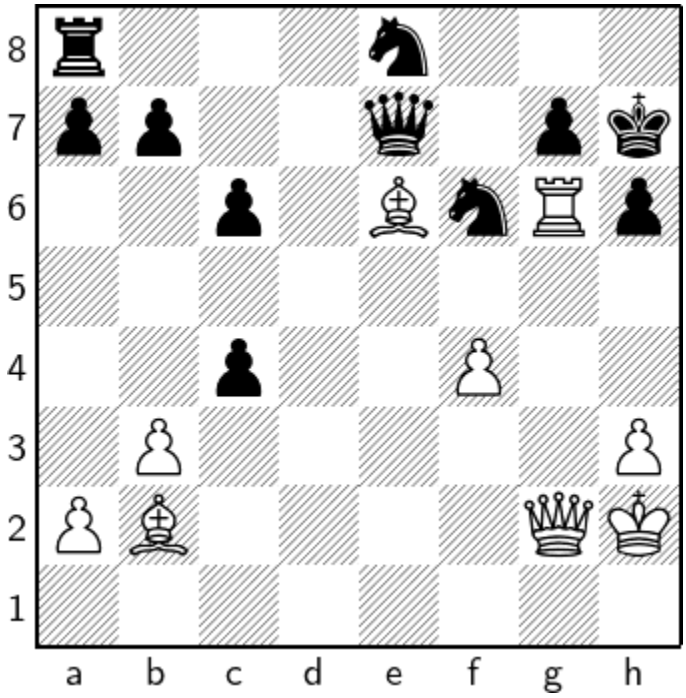
1…♕×e7 2 ♕×h7+

2 ♕×h7+ ♔×h7

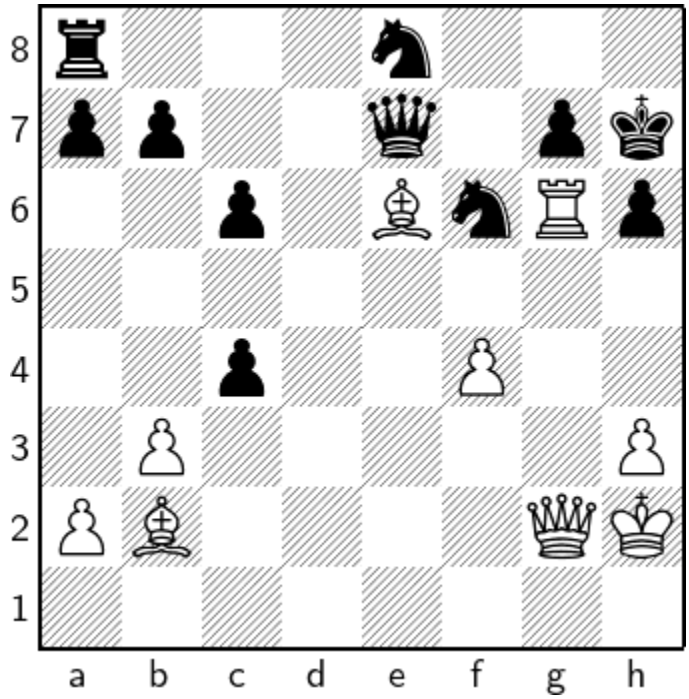
2…♔×h7 3 ♖h5+

1.32 ?

1.32.1 ?



1 ♖×h6+ ♔×h6 2 ♕g5+ ♔h7 3 ♕h4+ ♔g6 4 f5#



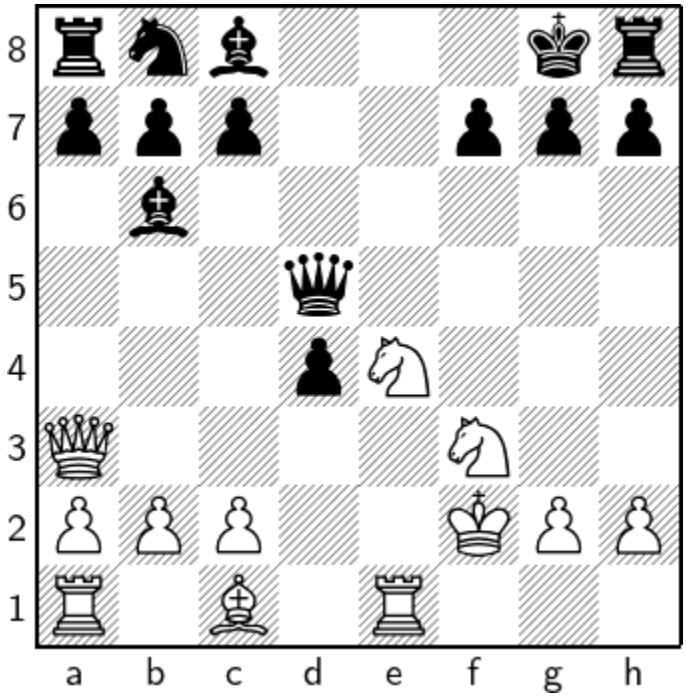
1 ♖×h6+ ♔×h6

a) 1…g×h6 2 ♕g8+

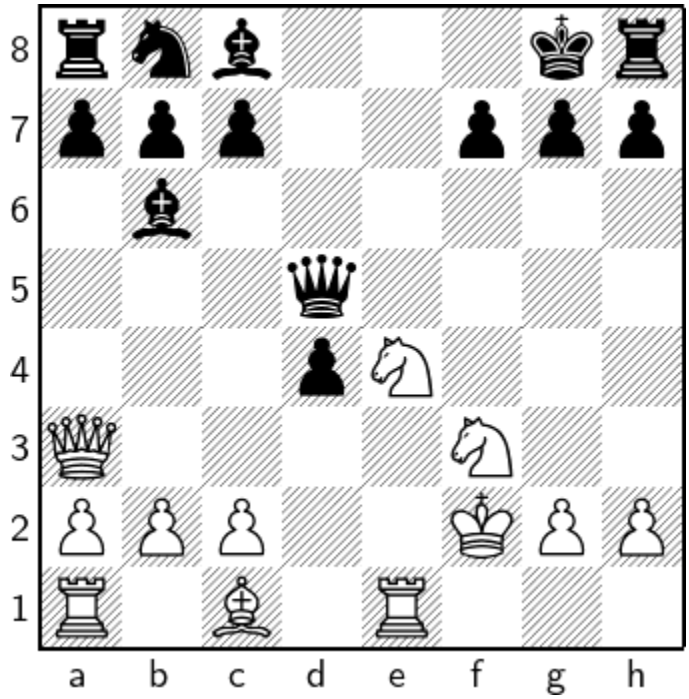
b) 1…♔×h6 2 ♕g5+

1.33 ?

1.33.1 ?



1 ♘f6+ g×f6 2 ♕f8+ ♔×f8 3 ♗h6+ ♔g8 4 ♖e8#



1 ♘f6+ g×f6

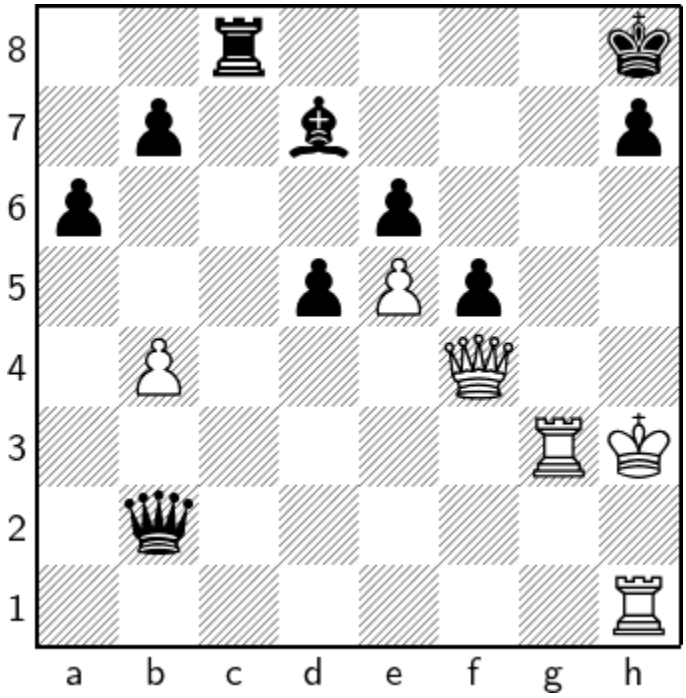
1…g×f6 2 ♕f8+

2 ♕f8+ ♔×f8

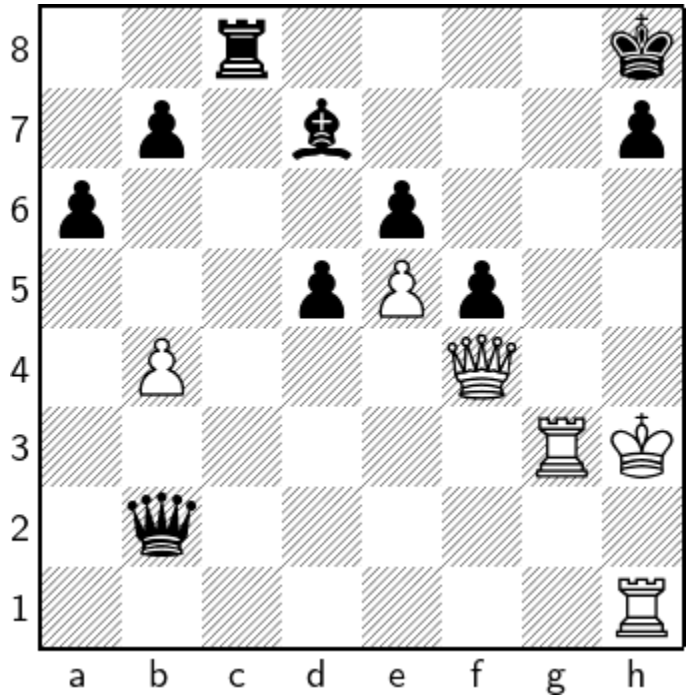
2…♔×f8 3 ♗h6+

1.34 ?

1.34.1 ?



1 ♕h6 ♕×e5 2 ♕×h7+ ♔×h7 3 ♔g2#



1 ♕h6 ♕×e5

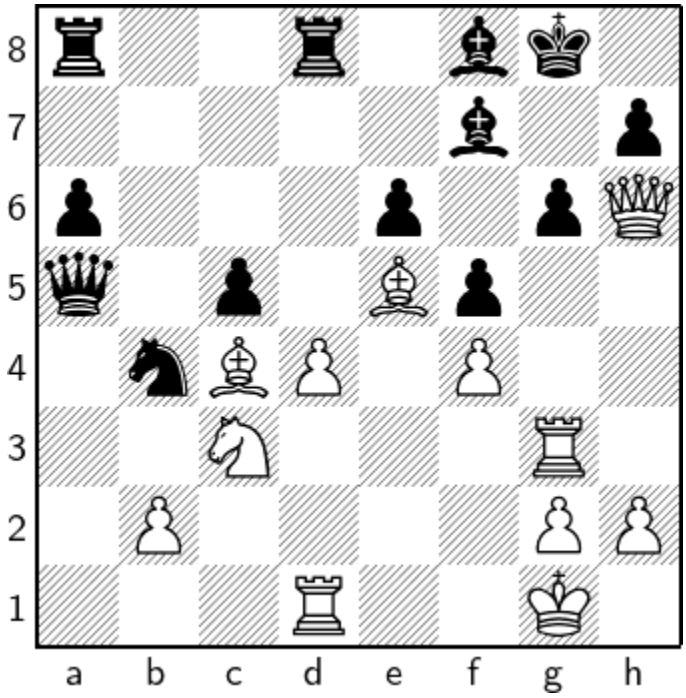
1…♕g2+ 2 ♔×g2 ♖c2+ 3 ♔h3 ♖h2+ 4 ♖×h2 d4 5 ♕f6#

2 ♕×h7+ ♔×h7

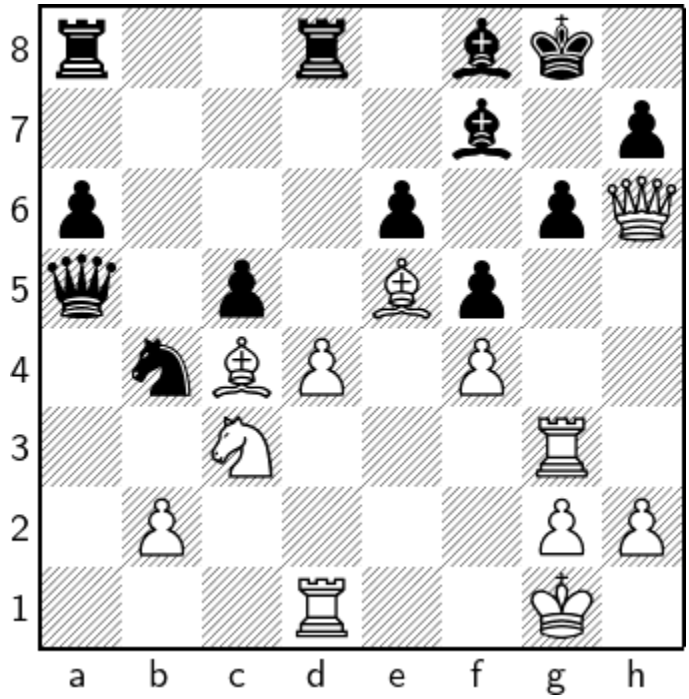
2…♔×h7 3 ♔g2#

1.35 ?

1.35.1 ?



1 ♖×g6+ ♗×g6 2 ♗×e6+ ♗f7 3 ♕g5+ ♗g7 4 ♕×g7#



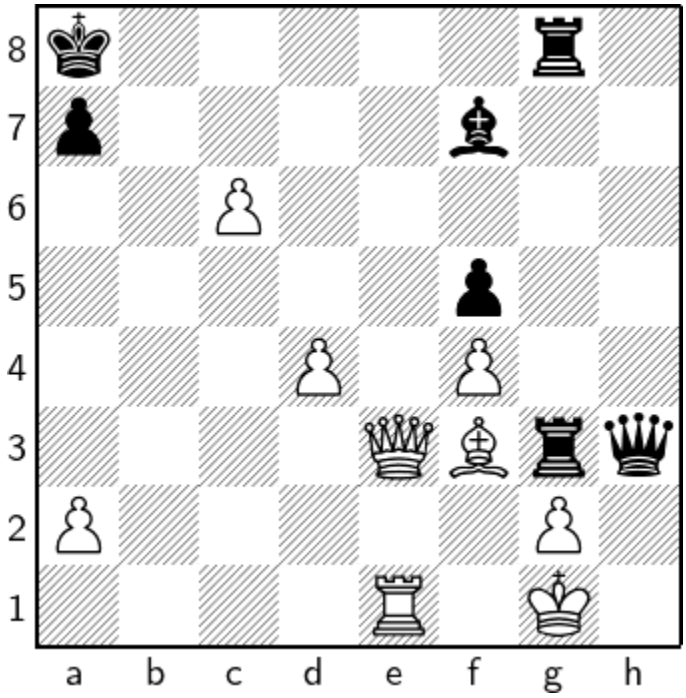
1 ♖×g6+ ♗×g6

a) 1…♗×g6 2 ♗×e6+

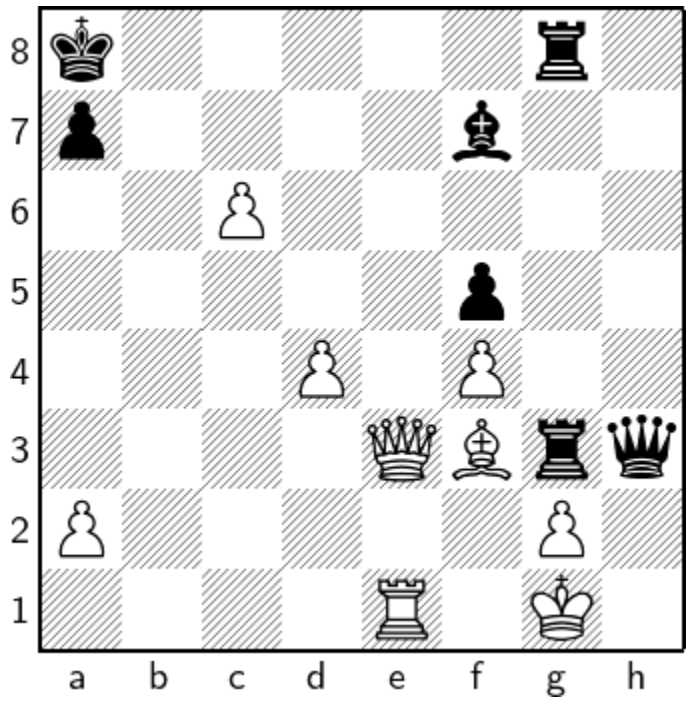
b) 1…h×g6 2 ♕h8#

1.36 ?

1.36.1 ?



1 ♕e8+ ♖×e8 2 ♖×e8+ ♗×e8 3 c7+ ♖×f3 4 c8♕#



1 ♕e8+ ♖×e8

a) 1…♗×e8 2 c7+

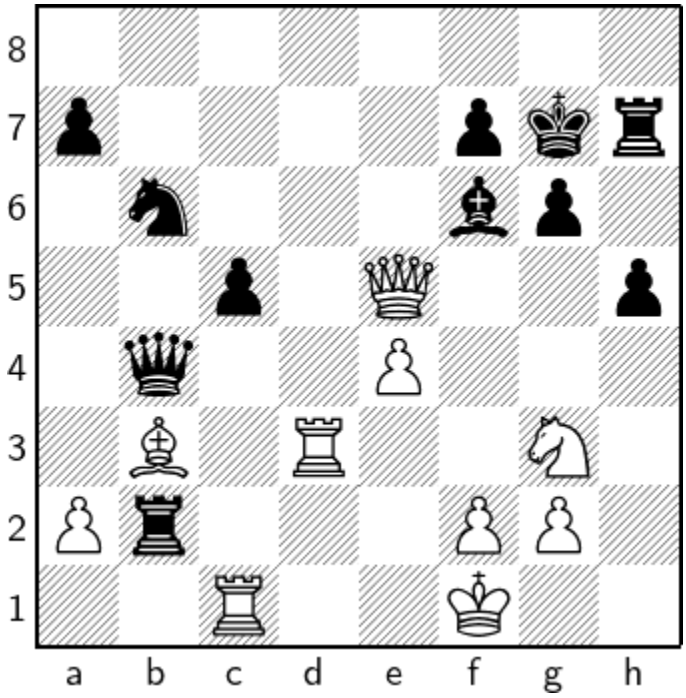
b) 1…♖×e8 2 ♖×e8+

2 ♖×e8+ ♗×e8 3 c7+ ♖×f3 4 c8♕#

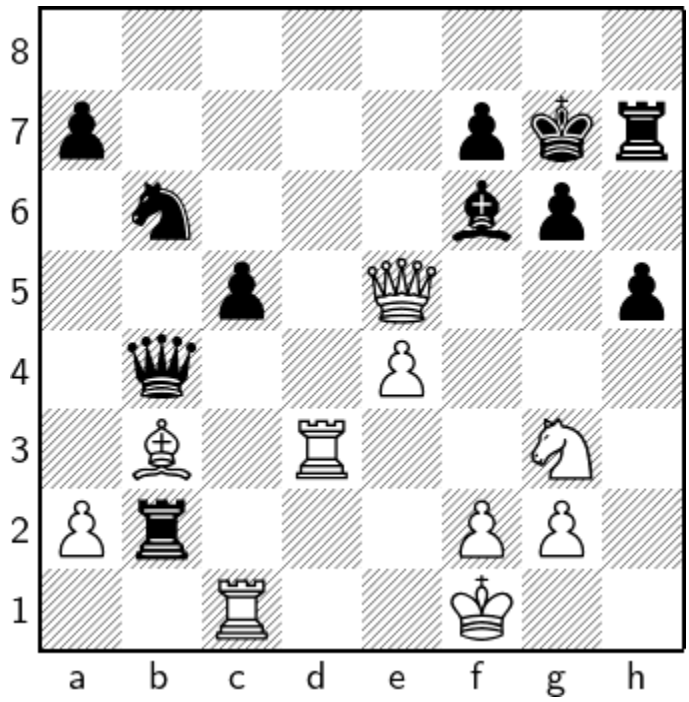
4 g×h3 ♔b7

1.37 ?

1.37.1 ?



1 ♘f5+ g×f5 2 ♖g3+ ♔f8 3 ♖g8+ ♔×g8 4 ♕e8+ ♔g7 5 ♕×f7+ ♔h6 6 ♕×f6#



1 ♘f5+ g×f5

1…g×f5 2 ♖g3+

2 ♖g3+ ♔f8 3 ♖g8+

3 ♕×f6 ♕d2 4 ♕×b2 ♕×b2 5 ♖×c5 ♕b1+ 6 ♔e2 f×e4

3…♔×g8

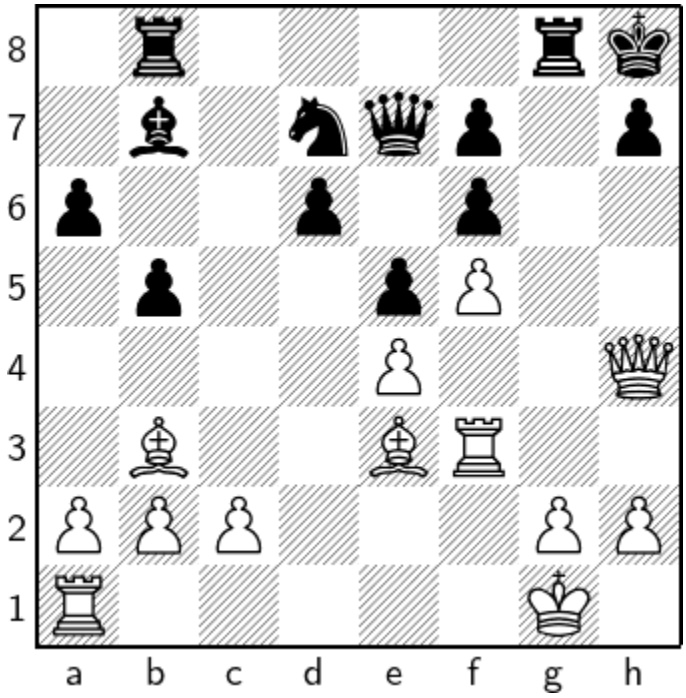
3…♔×g8 4 ♕e8+

4 ♕e8+ ♔g7 5 ♕×f7+ ♔h6

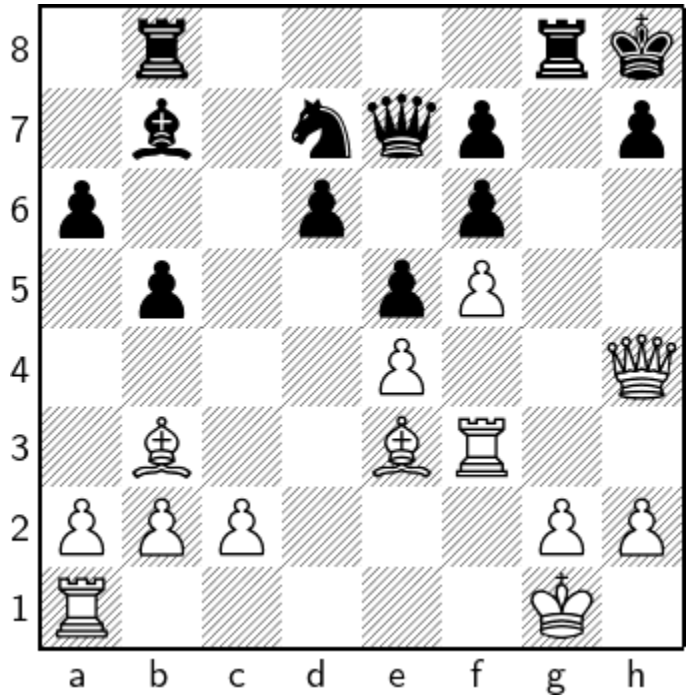
5…♔h8 6 ♕f8#

1.38 ?

1.38.1 ?



1 ♕×h7+ ♔×h7 2 ♖h3+ ♔g7 3 ♗h6+ ♔h7 4 ♗f8#



1 ♕×h7+ ♔×h7

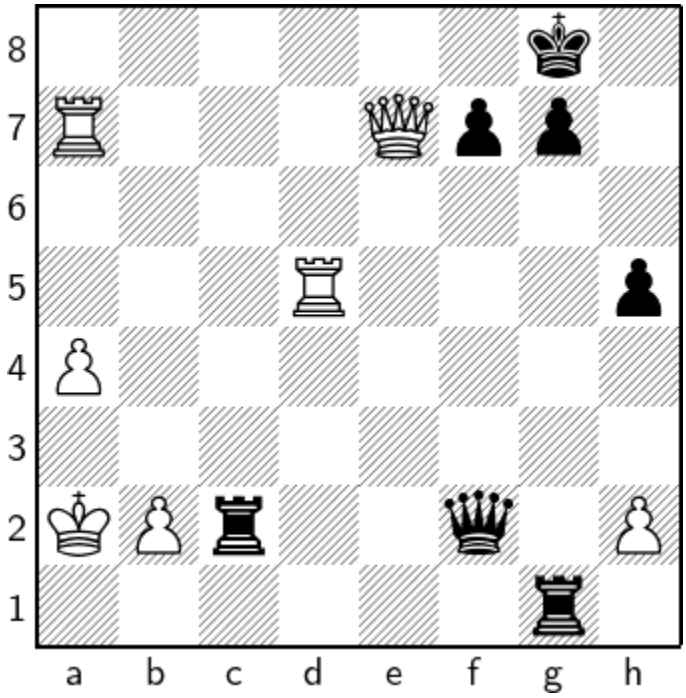
1…♔×h7 2 ♖h3+

2 ♖h3+ ♔g7 3 ♗h6+ ♔h7

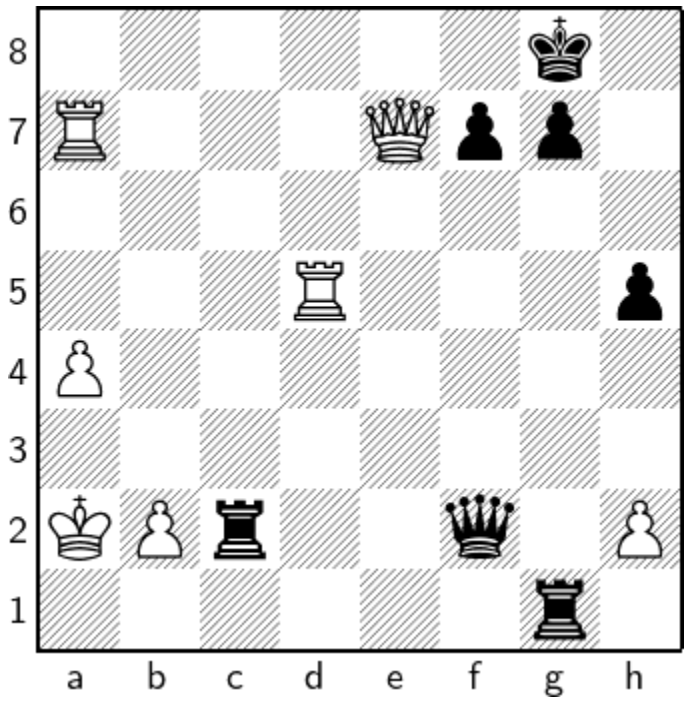
3…♔h8 4 ♗f8#

1.39 ?

1.39.1 ?



1 ♕f8+ ♔h7 2 ♕h8+ ♔g6 3 ♕×h5+ ♔f6 4 ♕×f7#



1 ♕f8+ ♔h7

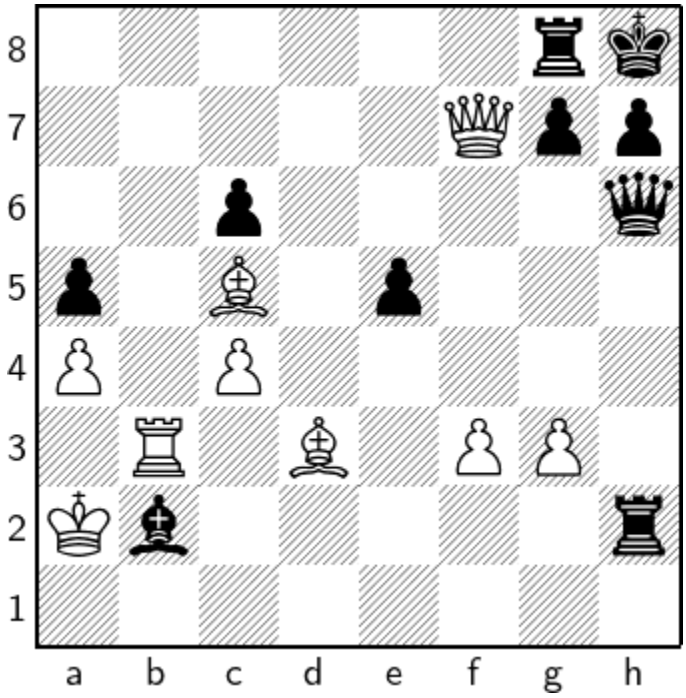
1…♔×f8 2 ♖d8#

2 ♕h8+ ♔g6

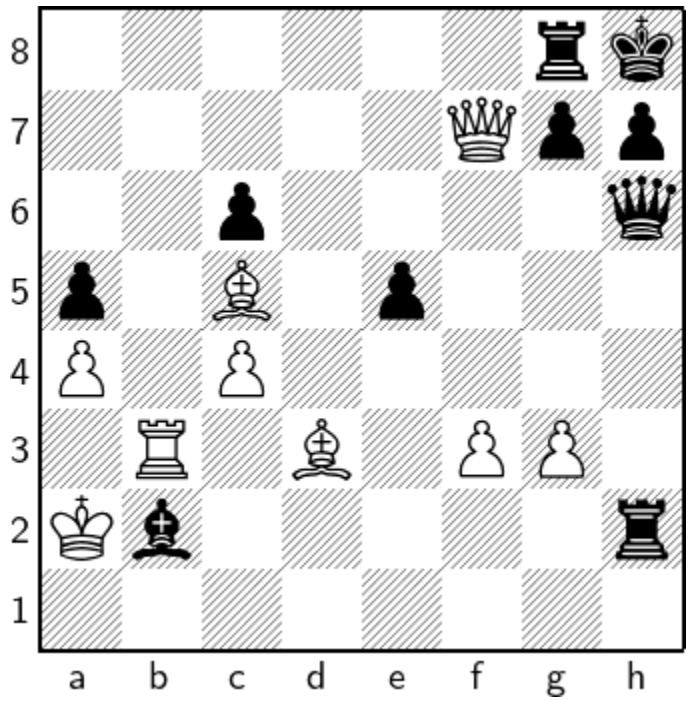
2…♔×h8 3 ♖×h5+

1.40 ?

1.40.1 ?



1 ♕×g8+ ♔×g8 2 ♖b8+ ♔f7 3 ♖f8+ ♔e6 4 ♗f5#



1 ♕×g8+

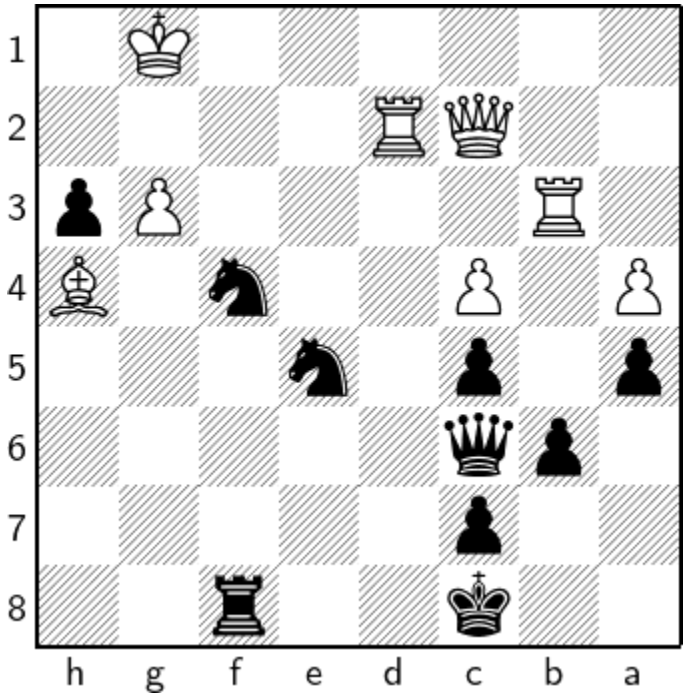
1 ♖×b2 ♖×b2+ 2 ♔×b2 ♕d2+ 3 ♔a1 ♕×d3

1…♔×g8

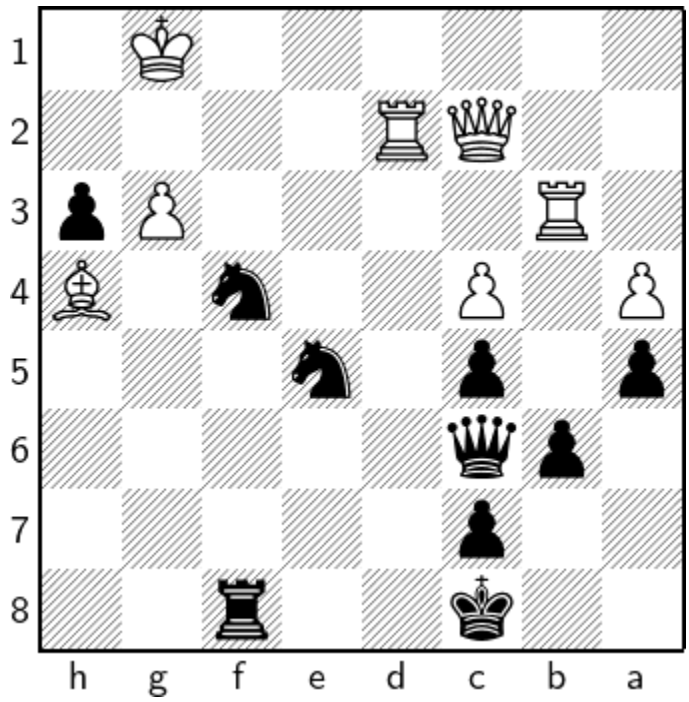
1…♔×g8 2 ♖b8+

1.41 ?

1.41.1 ?



1…♘e2+ 2 ♖×e2 ♖f1+ 3 ♔×f1 ♕h1+ 4 ♔f2 ♘g4#



1…♘e2+ 2 ♖×e2

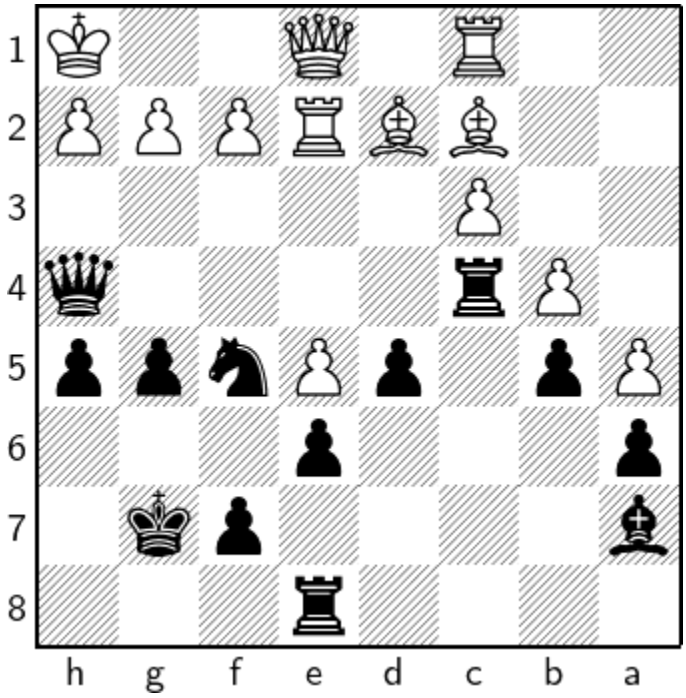
2 ♖×e2 ♖f1+

2…♖f1+ 3 ♔×f1

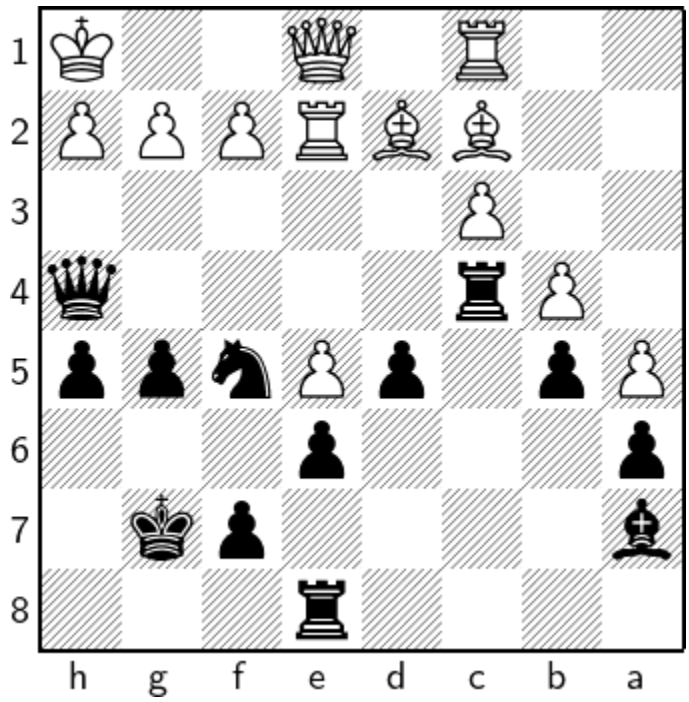
3 ♔×f1 ♕h1+

1.42 ?

1.42.1 ?



1…♕×h2+ 2 ♔×h2 ♖h4+ 3 ♔g1 ♘g3

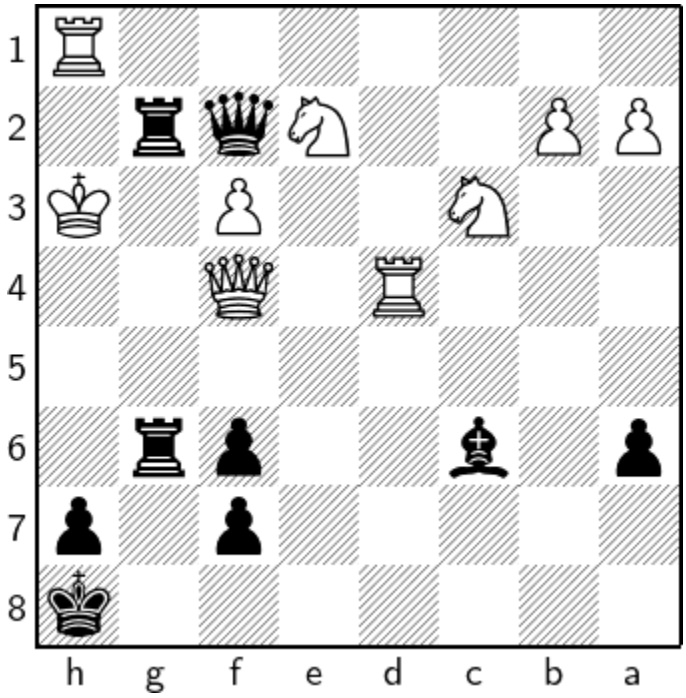


1…♕×h2+ 2 ♔×h2

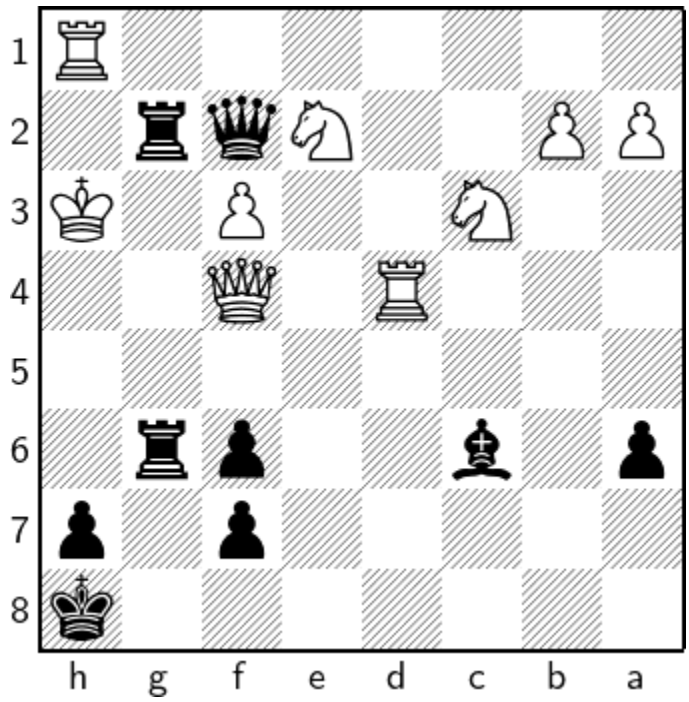
2 ♔×h2 ♖h4+

1.43 ?

1.43.1 ?



1…♗d7+ 2 ♖×d7 ♖h6+ 3 ♕×h6 ♕×f3+ 4 ♔h4 ♕g4#



1…♗d7+ 2 ♖×d7

2 ♖×d7 ♖h6+

2…♖h6+ 3 ♕×h6

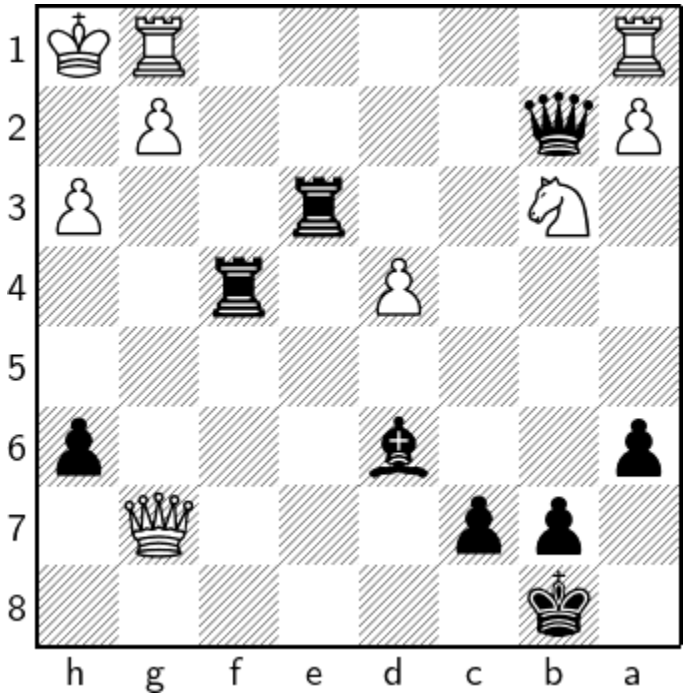
3 ♕×h6 ♕×f3+

3…♕×f3+ 4 ♔h4

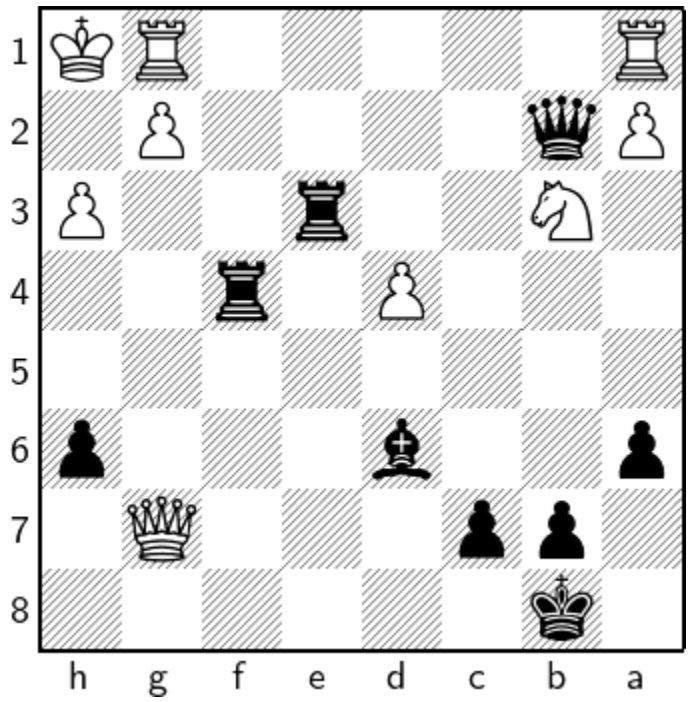
4 ♘g3 ♕×g3#

1.44 ?

1.44.1 ?



1…♖×h3+ 2 g×h3 ♕h2+ 3 ♔×h2 ♖f2+ 4 ♔h1 ♖h2#



1…♖×h3+ 2 g×h3

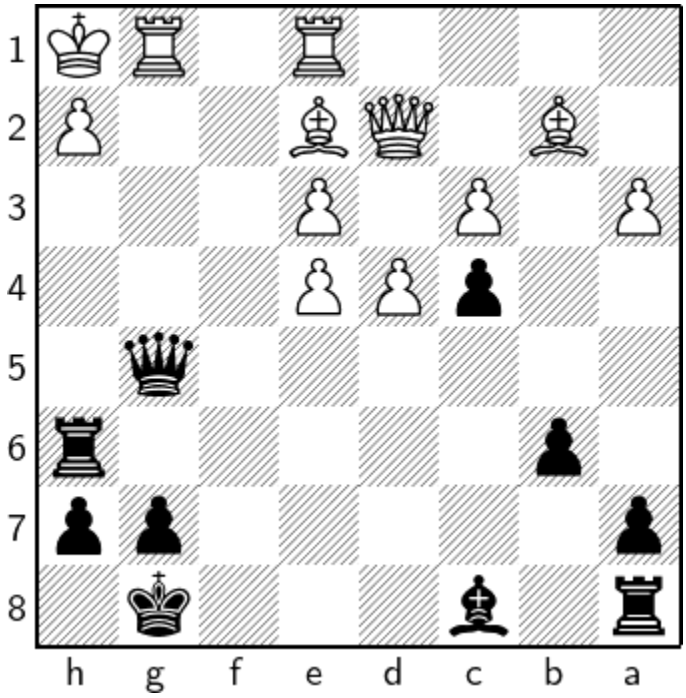
2 g×h3 ♕h2+

2…♕h2+ 3 ♔×h2

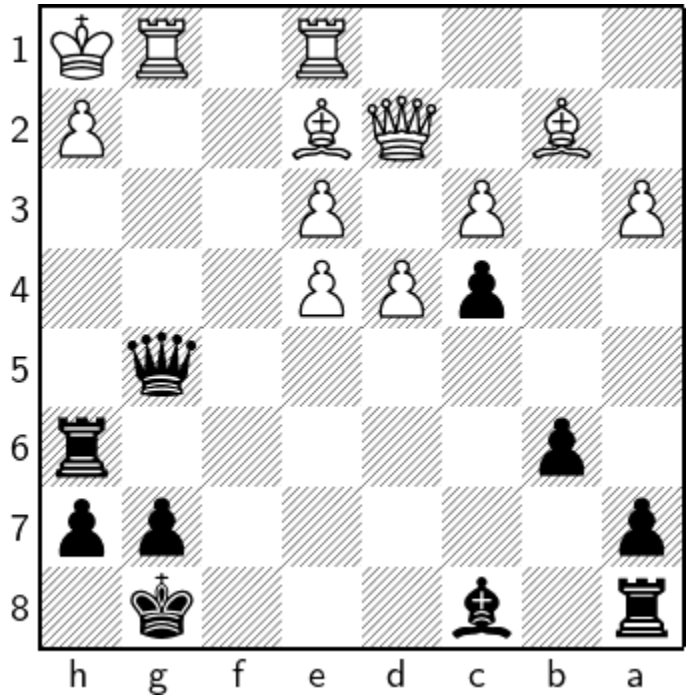
3 ♔×h2 ♖f2+

1.45 ?

1.45.1 ?



1…♖×h2+ 2 ♔×h2 ♕h4+ 3 ♔g2 ♗h3+

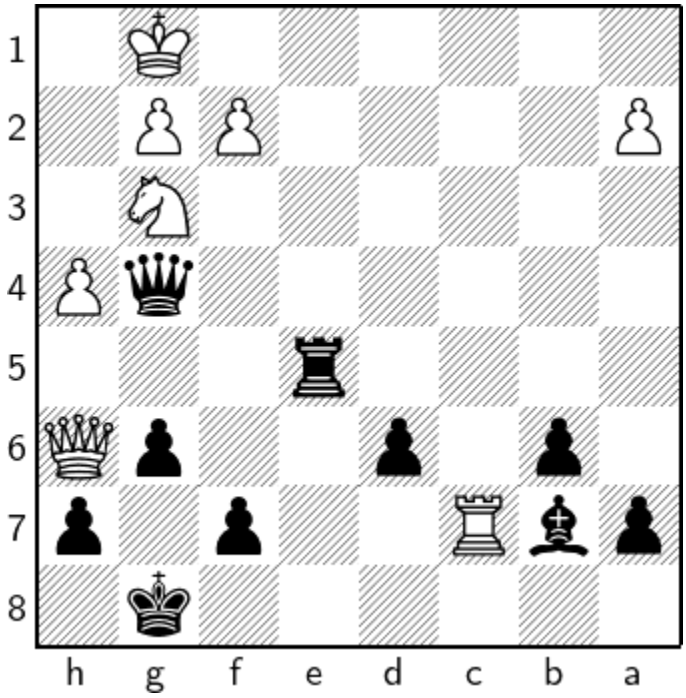


1…♖×h2+ 2 ♔×h2

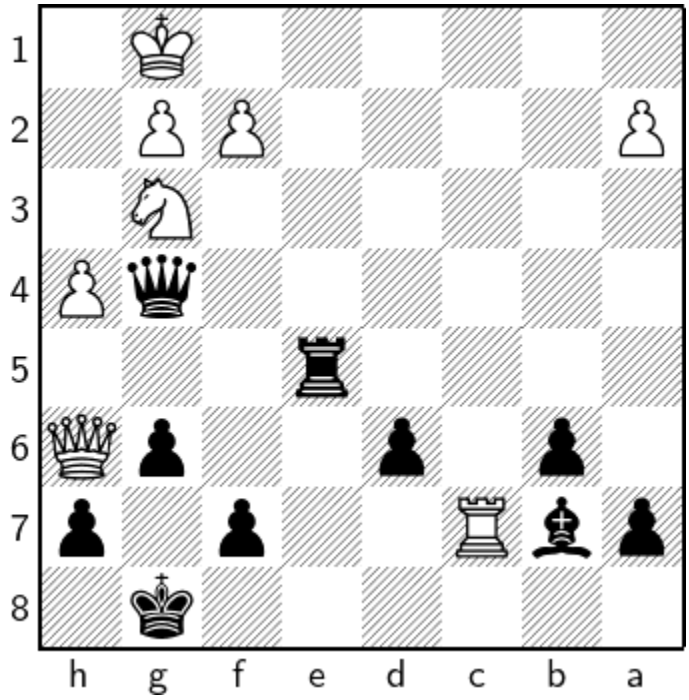
2 ♔×h2 ♕h4+

1.46 ?

1.46.1 ?



1…♖e1+ 2 ♔h2 ♖h1+ 3 ♔×h1 ♕h3+ 4 ♔g1 ♕×g2#



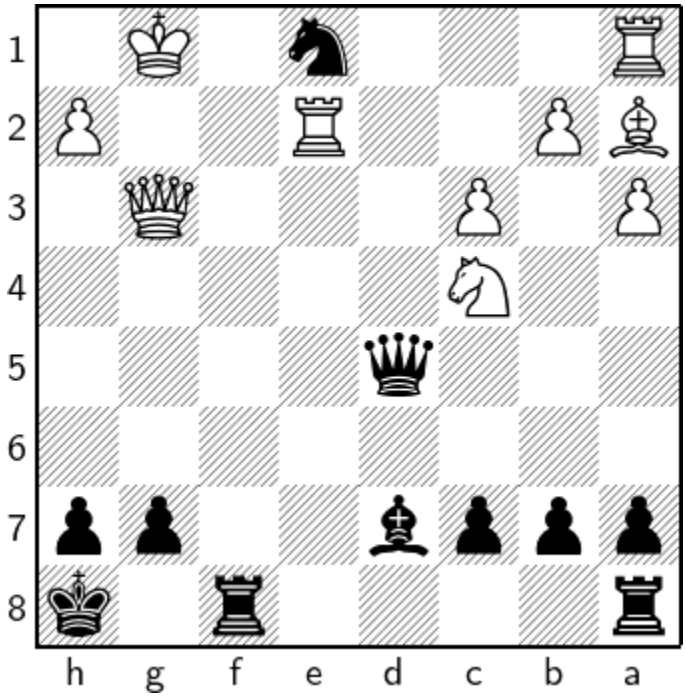
1…♖e1+ 2 ♔h2 ♖h1+ 3 ♔×h1

a) 3 ♘×h1 ♕×g2#

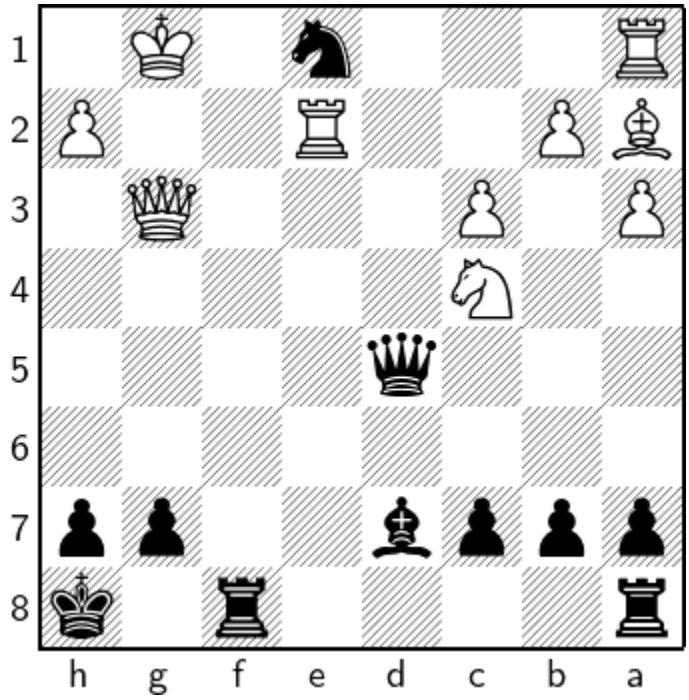
b) 3 ♔×h1 ♕h3+

1.47 ?

1.47.1 ?



1…♕h1+ 2 ♔×h1 ♖f1+ 3 ♕g1 ♗c6+ 4 ♖g2 ♗×g2#



1…♕h1+ 2 ♔×h1

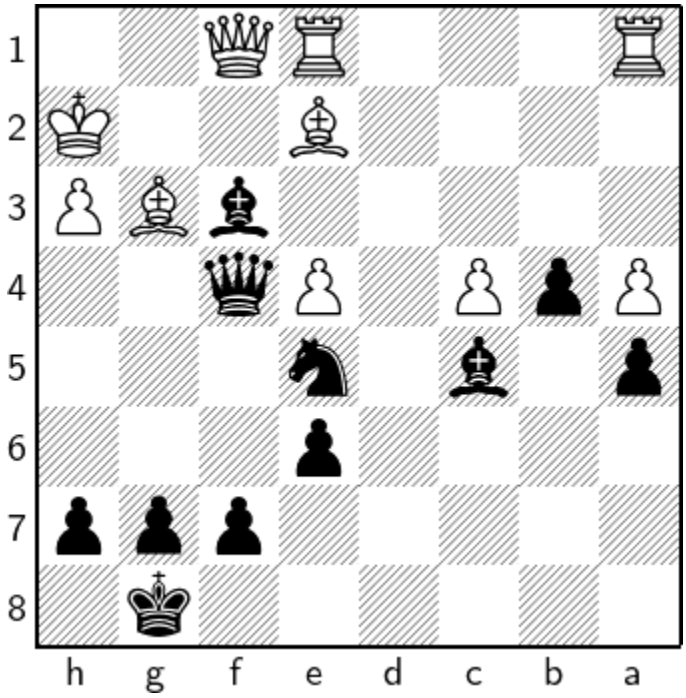
2 ♔×h1 ♖f1+

2…♖f1+ 3 ♕g1 ♗c6+ 4 ♖g2 ♗×g2#

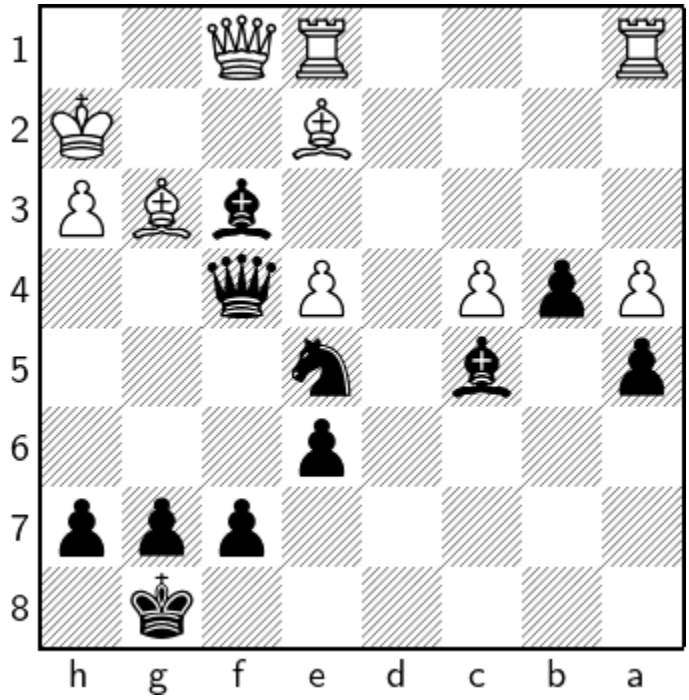
4…♖×g1+ 5 ♔×g1 ♘×g2 6 ♘e5

1.48 ?

1.48.1 ?



1…♗g1+ 2 ♕×g1 ♘g4+ 3 h×g4 ♕h6+ 4 ♗h4 ♕×h4#



1…♗g1+ 2 ♕×g1

a) 2 ♕×g1 ♘g4+

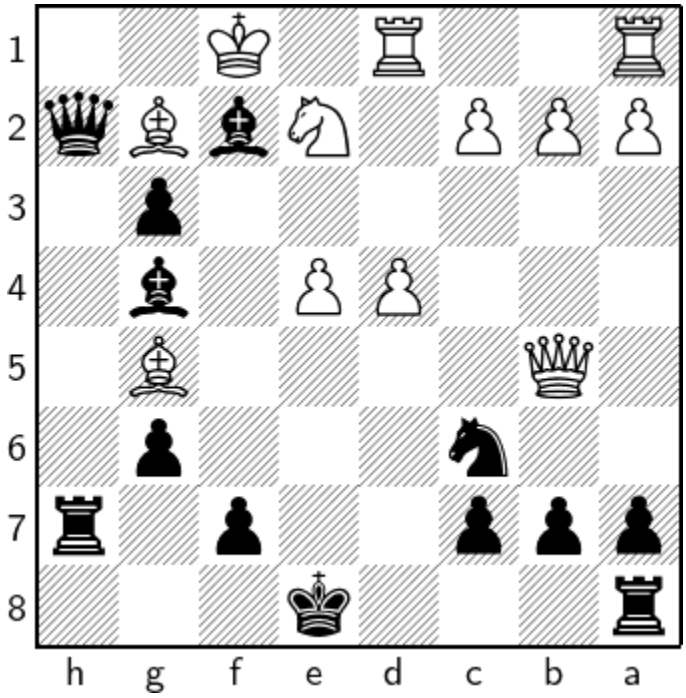
b) 2 ♔×g1 ♕×g3+

2…♘g4+ 3 h×g4

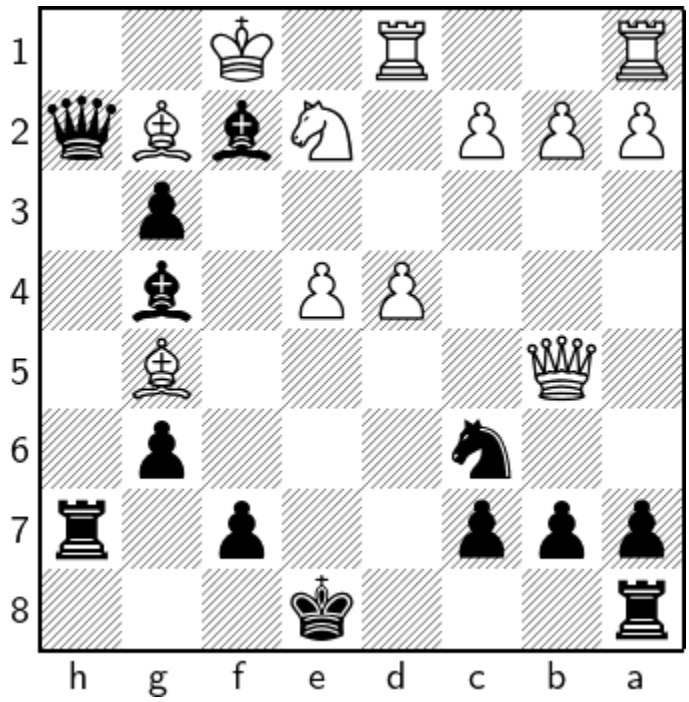
3 h×g4 ♕h6+

1.49 ?

1.49.1 ?



1…♕h1+ 2 ♗×h1 ♖×h1+ 3 ♔g2 ♖h2+ 4 ♔f1 ♗h3#

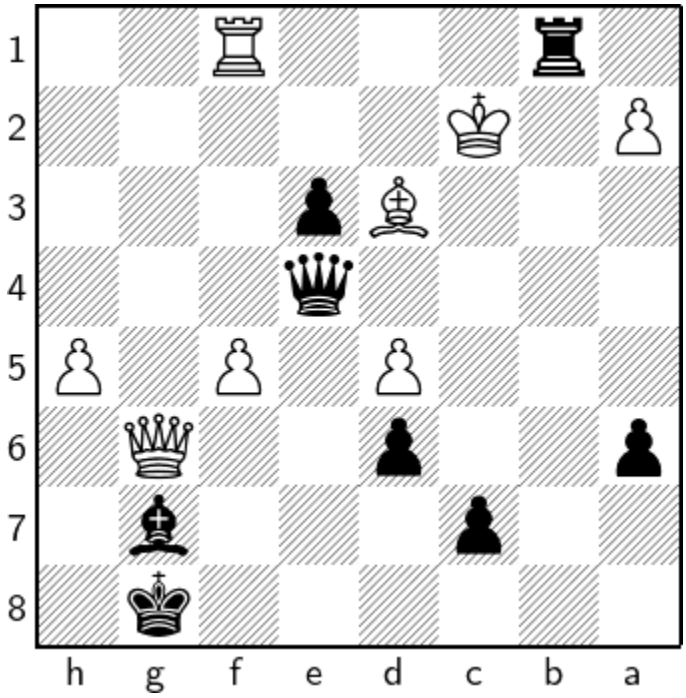


1…♕h1+ 2 ♗×h1

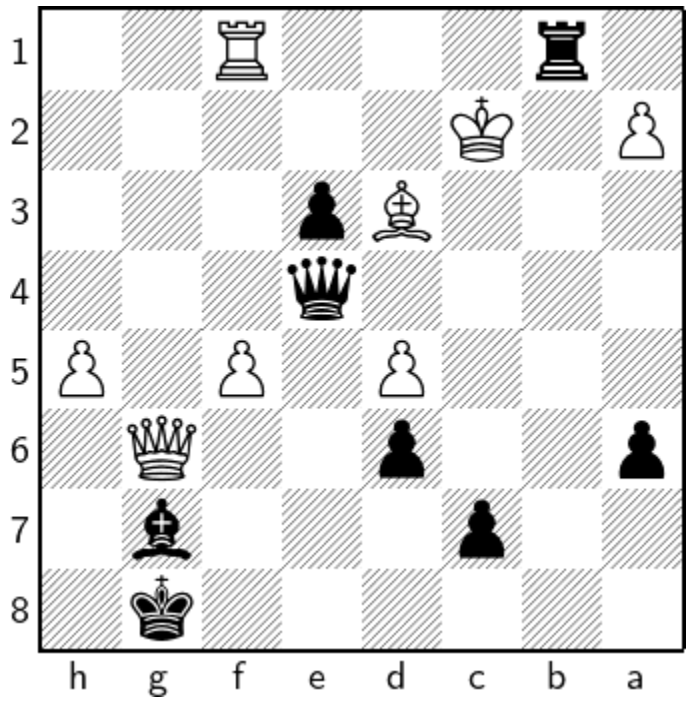
2 ♗×h1 ♖×h1+

1.50 ?

1.50.1 ?

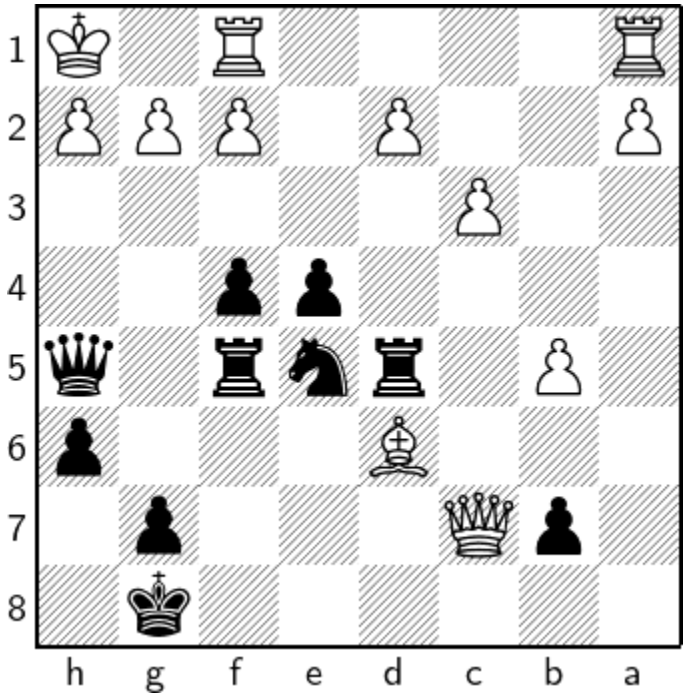


1…♕a4+ 2 ♔×b1 ♕b4+ 3 ♔c2 ♕b2+ 4 ♔d1 ♕d2#

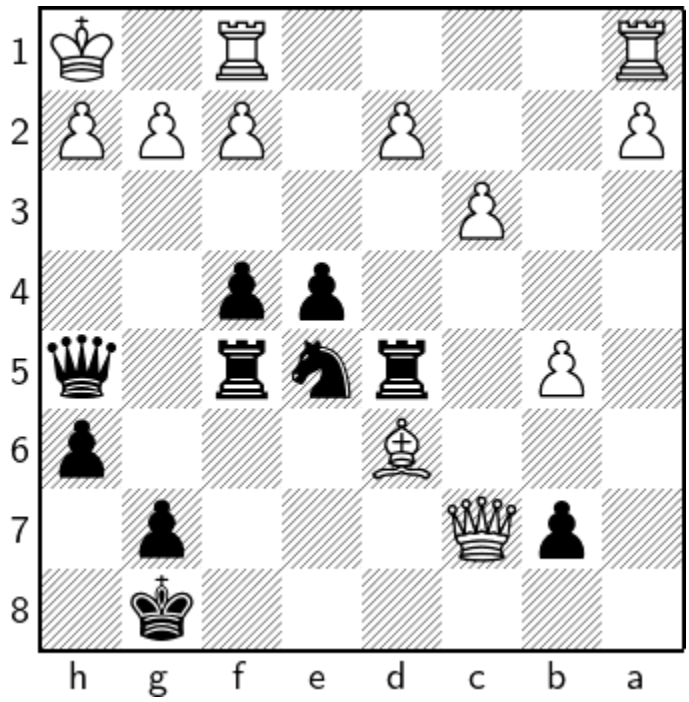


1.51 ?

1.51.1 ?



1…♕×h2+ 2 ♔×h2 ♖h5+ 3 ♔g1 ♘f3+ 4 g×f3 ♖dg5#



1…♕×h2+ 2 ♔×h2

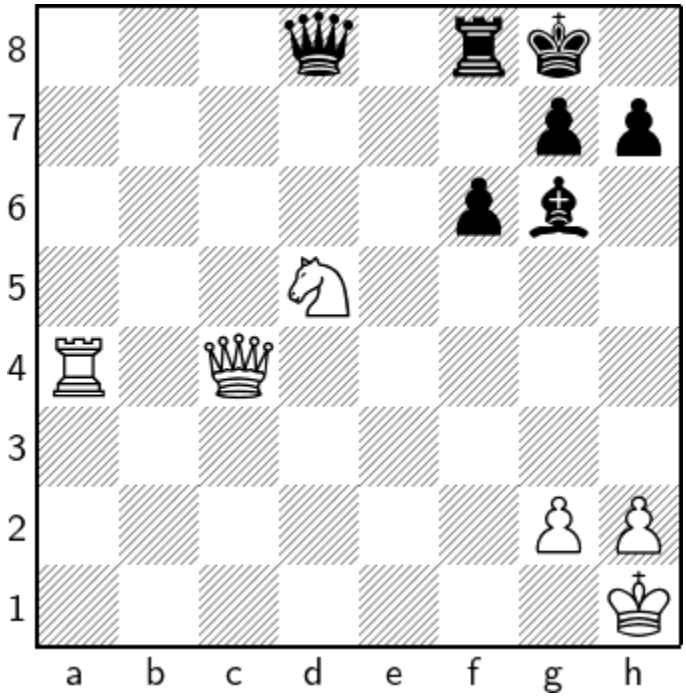
2 ♔×h2 ♖h5+

2…♖h5+ 3 ♔g1 ♘f3+ 4 g×f3

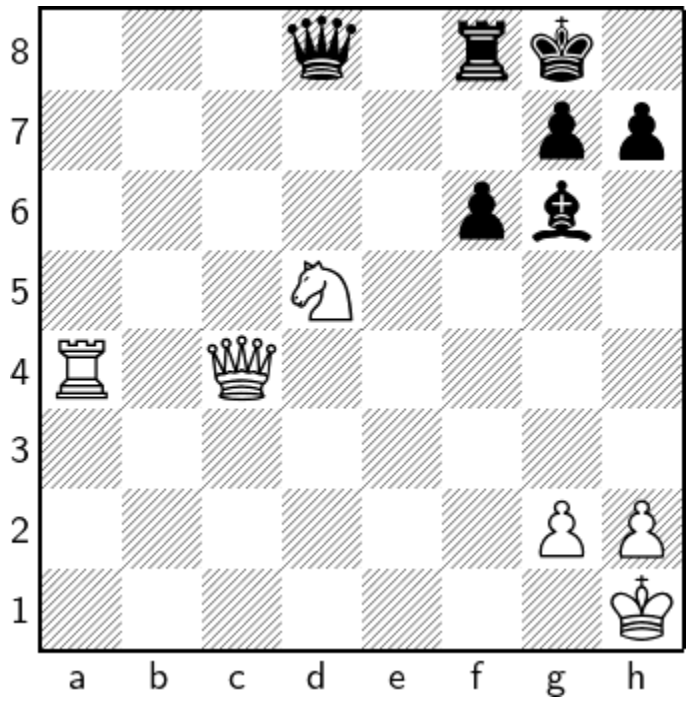
4 g×f3 ♖dg5#

1.52 ?

1.52.1 ?



1 ♘e7+ ♔h8 2 ♕g8+ ♖×g8 3 ♘×g6+ h×g6 4 ♖h4#

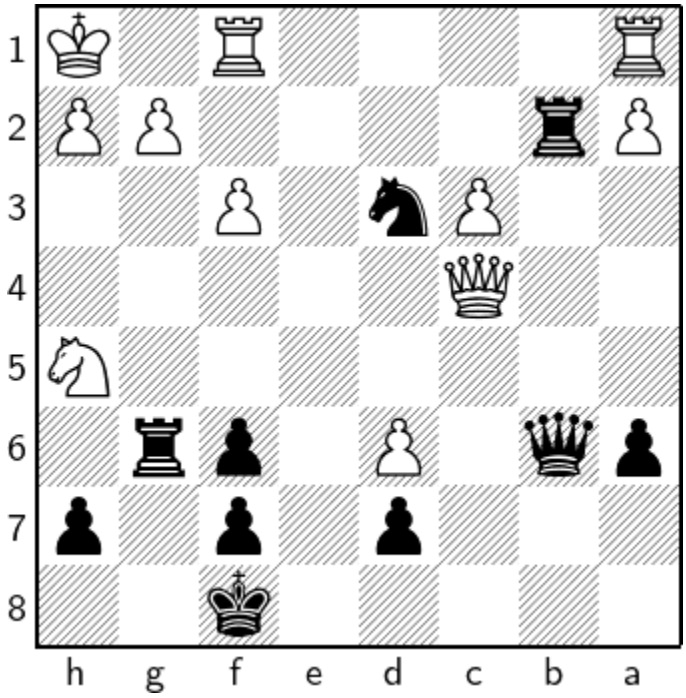


1 ♘e7+ ♔h8 2 ♕g8+ ♖×g8

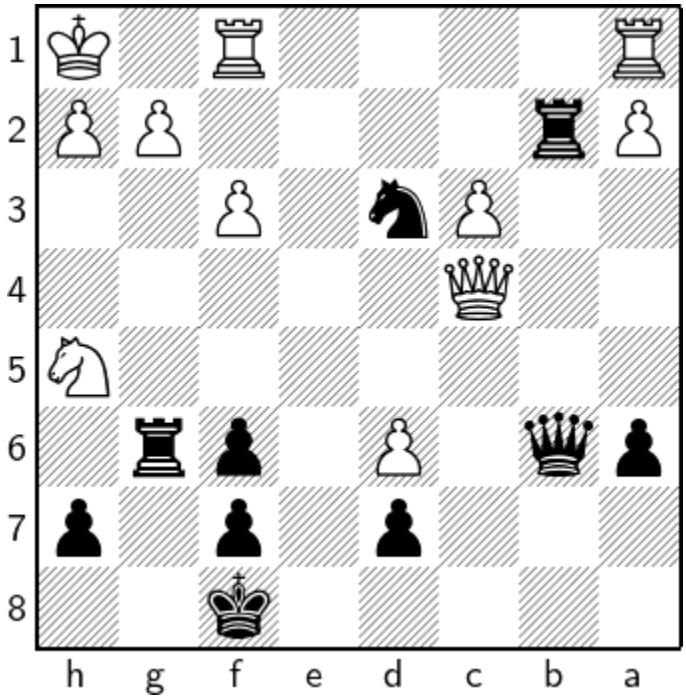
2…♖×g8 3 ♘×g6+

1.53 ?

1.53.1 ?



1…♕g1+ 2 ♔×g1 ♖g×g2+ 3 ♔h1 ♖×h2+ 4 ♔g1 ♖bg2#



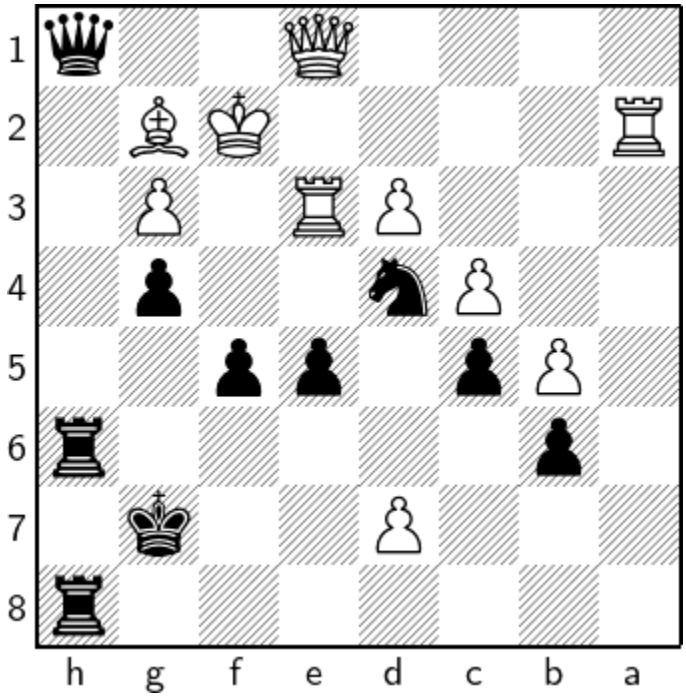
1…♕g1+ 2 ♔×g1

a) 2 ♖×g1 ♘f2#

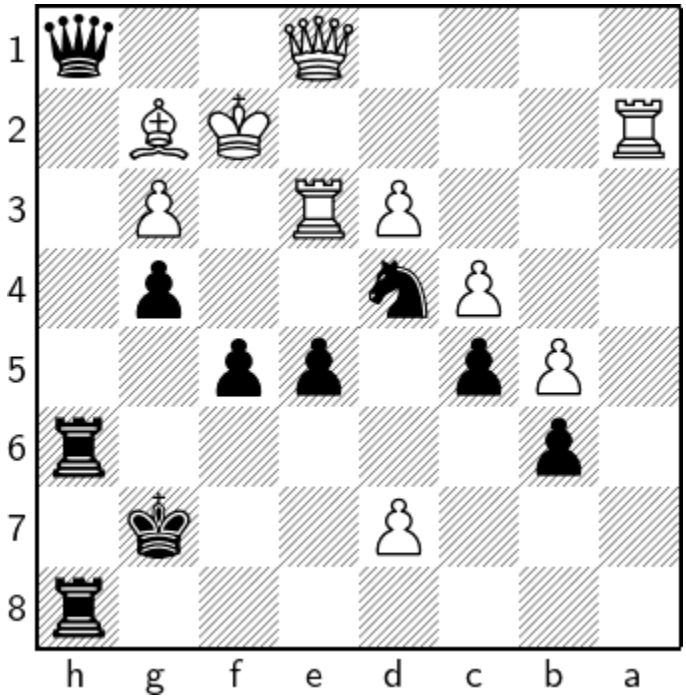
b) 2 ♔×g1 ♖g×g2+

1.54 ?

1.54.1 ?



1…♕×g2+ 2 ♔×g2 ♖h2+ 3 ♔f1 ♖h1+ 4 ♔f2 ♖8h2#



1…♕×g2+ 2 ♔×g2

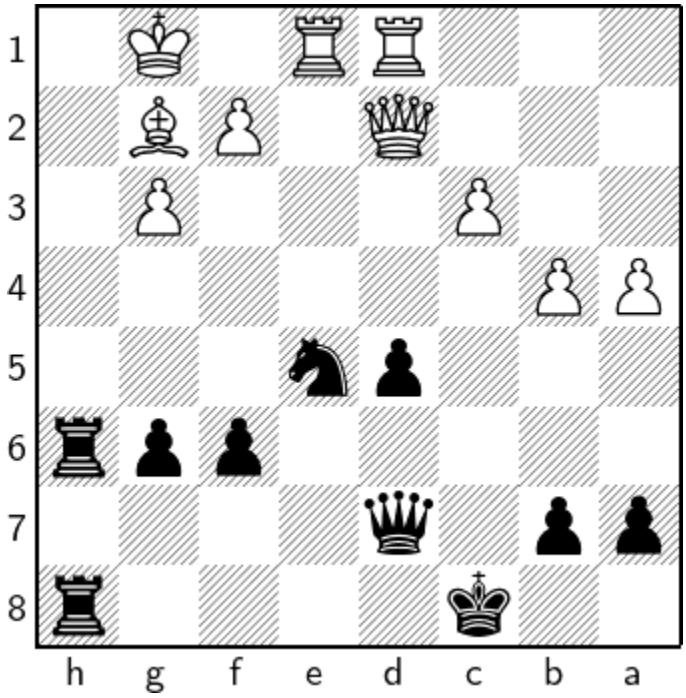
2 ♔×g2 ♖h2+

2…♖h2+ 3 ♔f1 ♖h1+ 4 ♔f2

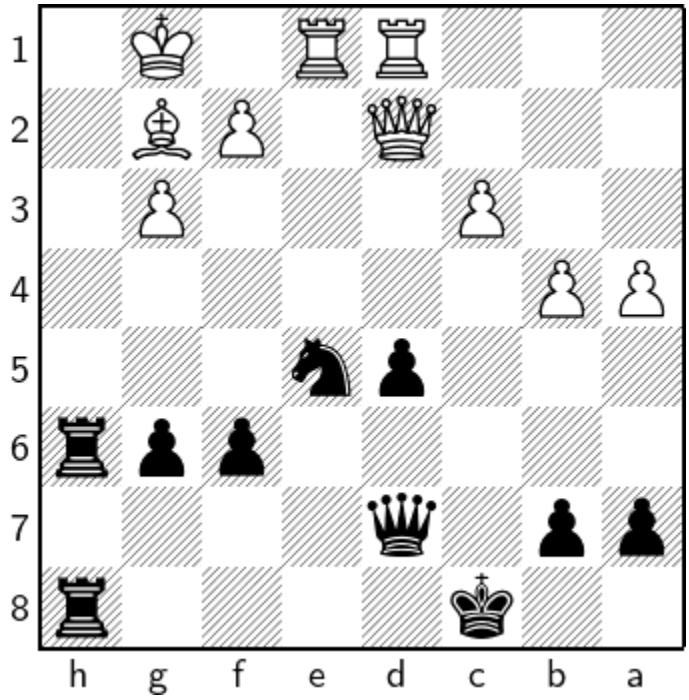
4 ♔g2 ♖8h2#

1.55 ?

1.55.1 ?



1…♖h1+ 2 ♗×h1 ♖×h1+ 3 ♔×h1 ♕h3+ 4 ♔g1 ♘f3#



1…♖h1+ 2 ♗×h1

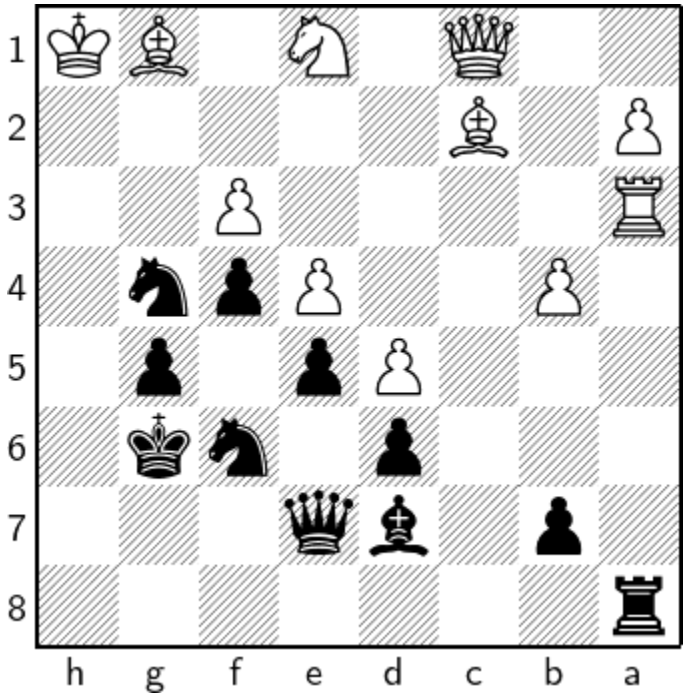
2 ♗×h1 ♖×h1+

2…♖×h1+ 3 ♔×h1

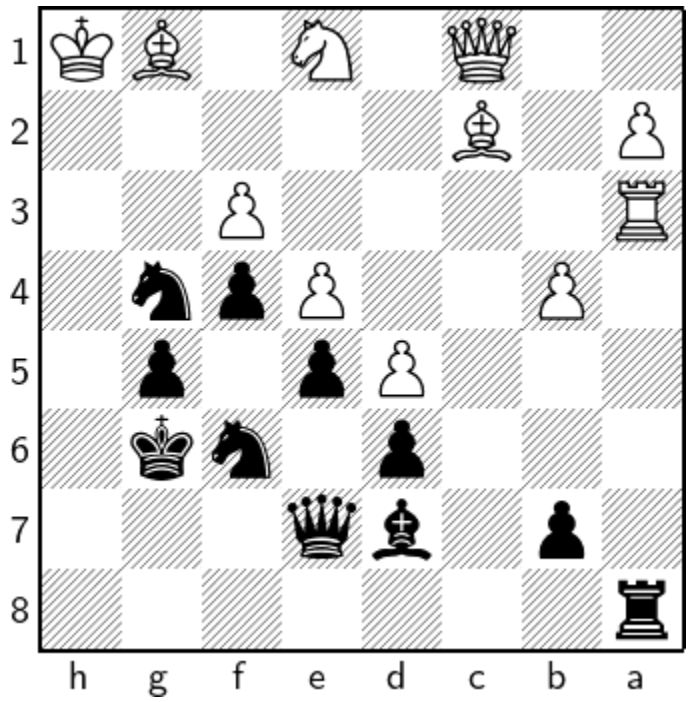
3 ♔×h1 ♕h3+

1.56 ?

1.56.1 ?



1…♕h7+ 2 ♔g2 ♕h3+ 3 ♔×h3 ♘e3+ 4 ♔h2 ♖h8#

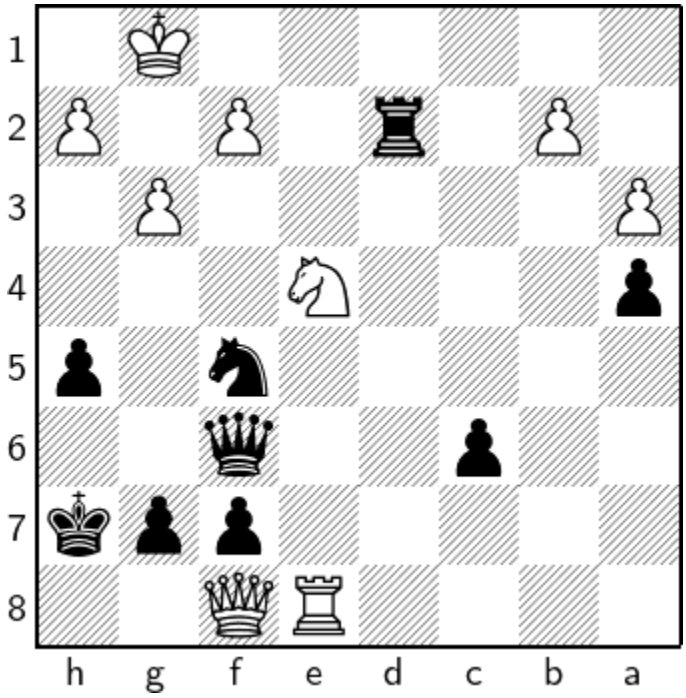


1…♕h7+ 2 ♔g2 ♕h3+ 3 ♔×h3

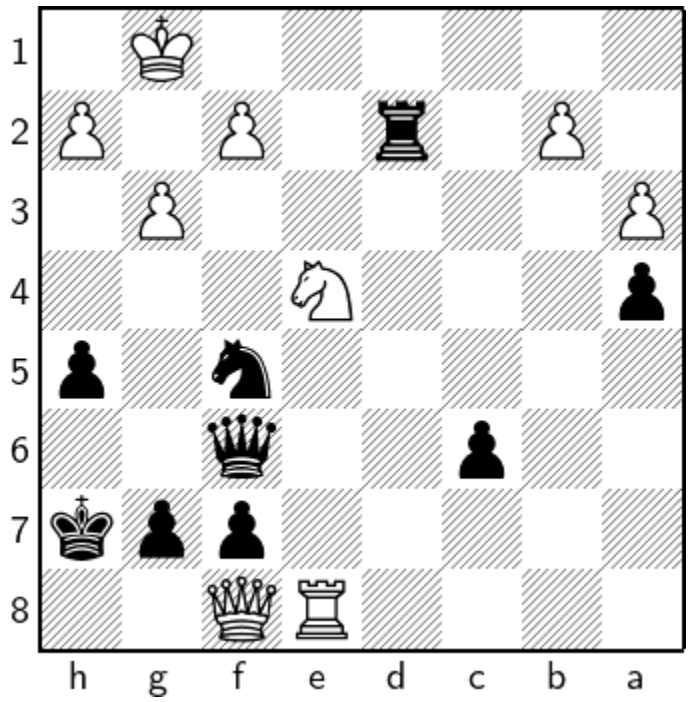
3 ♔×h3 ♘e3+

1.57 ?

1.57.1 ?



1…♖d1+ 2 ♔g2 ♘e3+ 3 ♔h3 ♕f5+ 4 g4 ♕×g4#

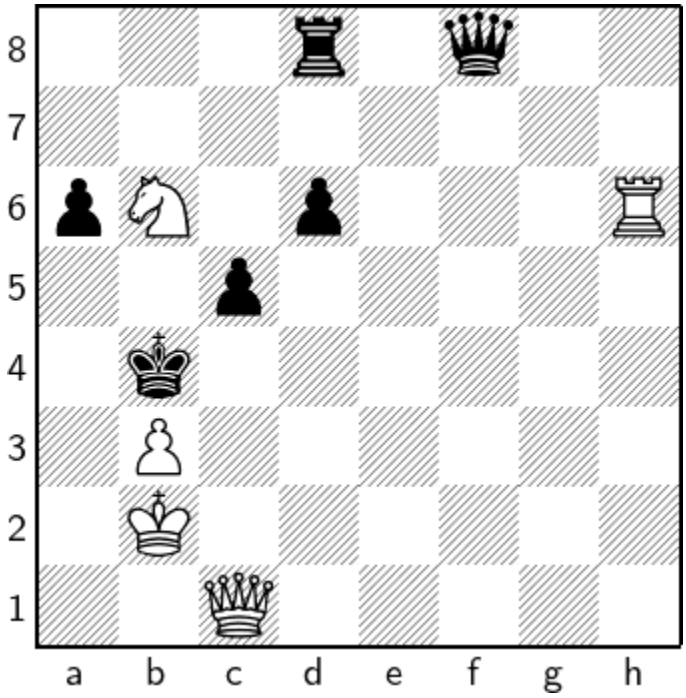


1…♖d1+ 2 ♔g2 ♘e3+ 3 ♔h3

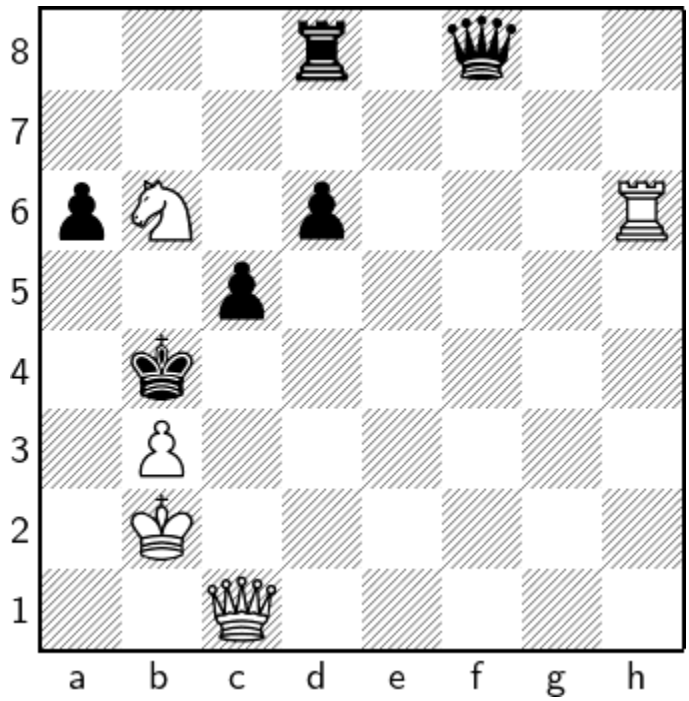
3 f×e3 ♕f1#

1.58 ?

1.58.1 ?



1 ♕c4+ ♔a5 2 ♕×c5+ d×c5 3 ♘c4+ ♔b5 4 ♖b6#

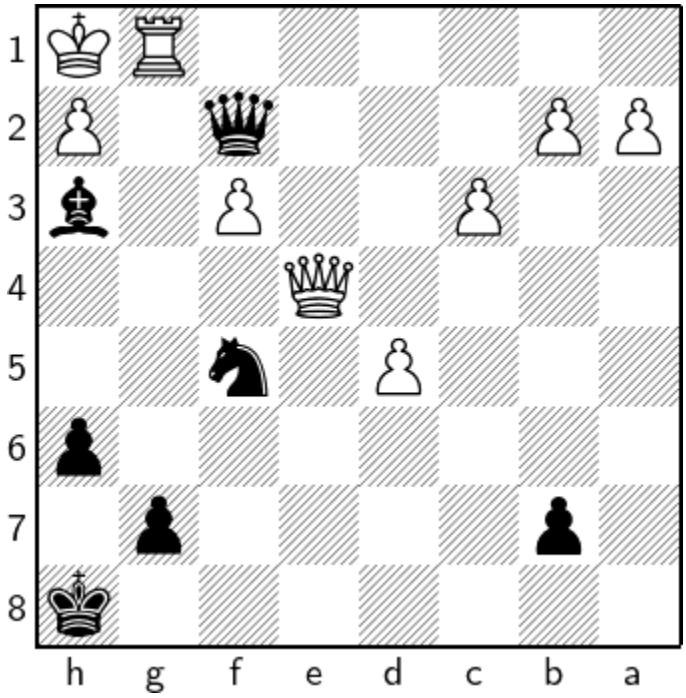


1 ♕c4+ ♔a5 2 ♕×c5+ d×c5

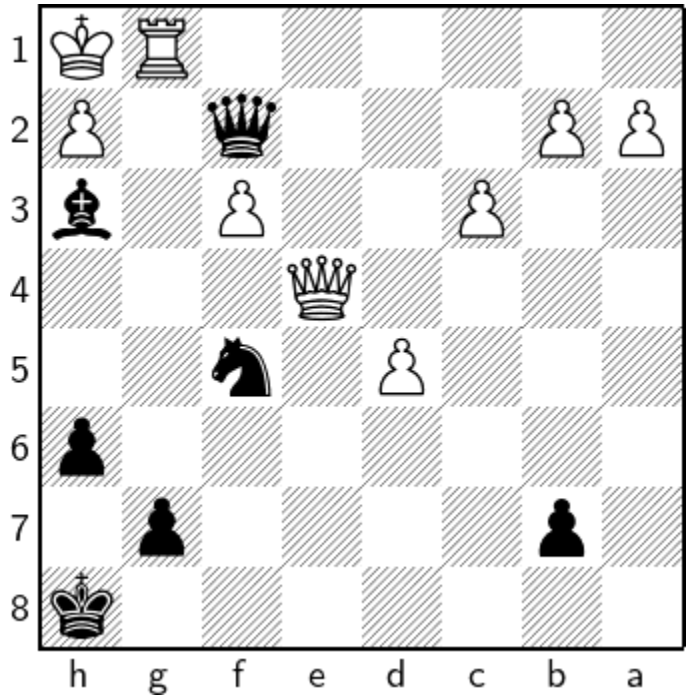
2…d×c5 3 ♘c4+

1.59 ?

1.59.1 ?



1…♗g2+ 2 ♖×g2 ♕f1+ 3 ♖g1 ♘g3+ 4 h×g3 ♕h3#



1…♗g2+ 2 ♖×g2

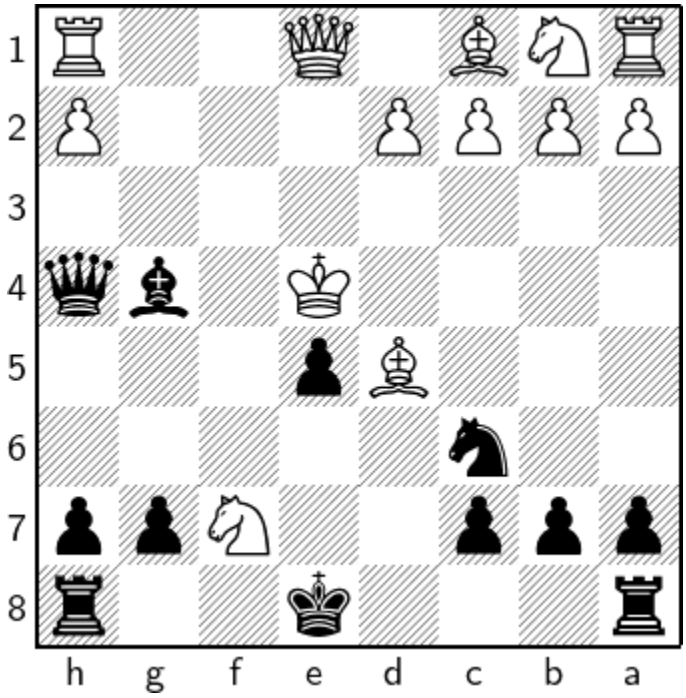
2 ♖×g2 ♕f1+

2…♕f1+ 3 ♖g1 ♘g3+ 4 h×g3

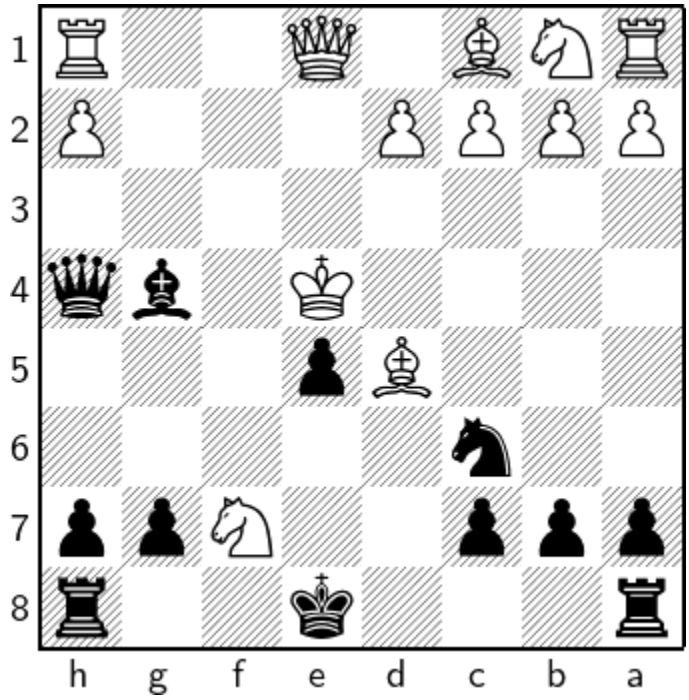
4 h×g3 ♕h3#

1.60 ?

1.60.1 ?



1…♗f5+ 2 ♔×f5 ♕f4+ 3 ♔e6 ♕f6#



1…♗f5+ 2 ♔×f5

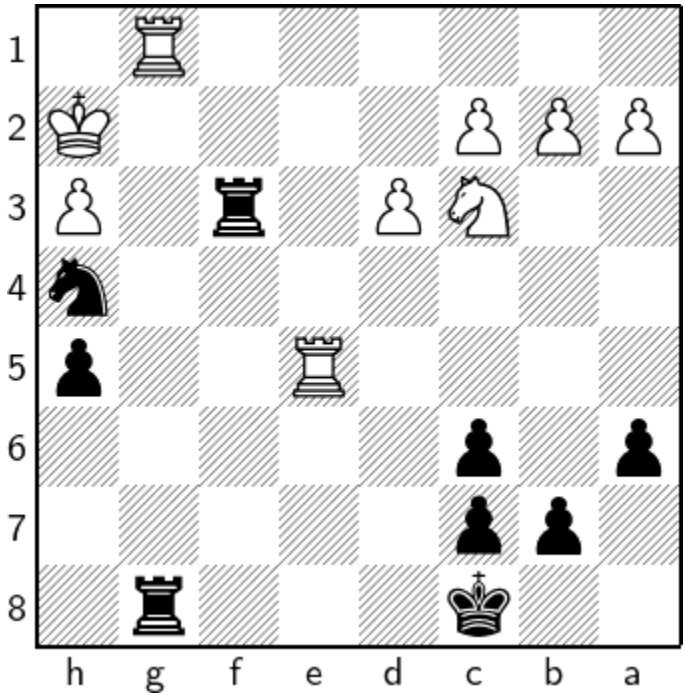
2 ♔×f5 ♕f4+

2…♕f4+ 3 ♔e6 ♕f6#

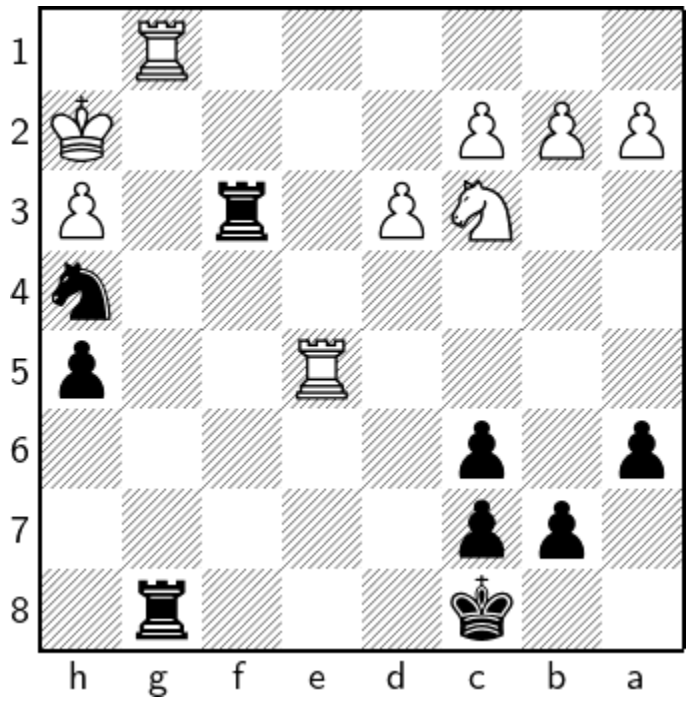
3…♕×f7#

1.61 ?

1.61.1 ?



1…♖f2+ 2 ♔h1 ♖h2+ 3 ♔×h2 ♘f3+ 4 ♔h1 ♖×g1#

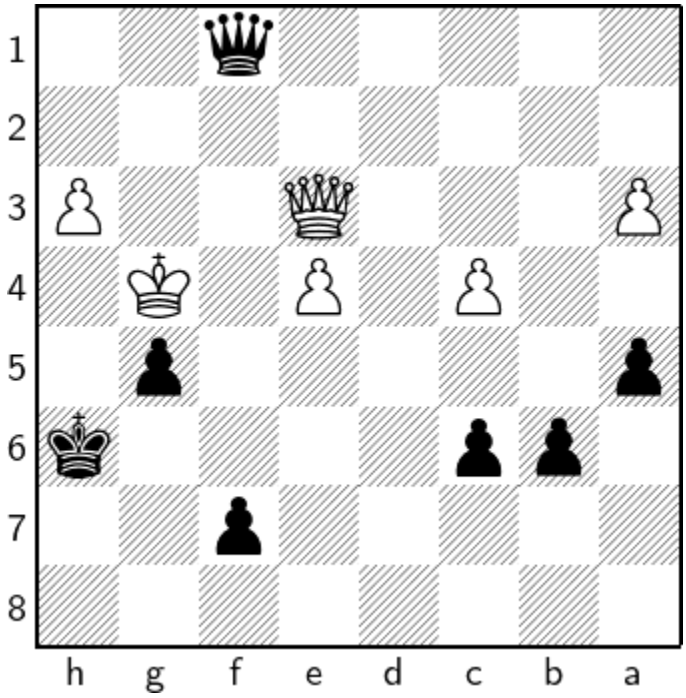


1…♖f2+ 2 ♔h1 ♖h2+ 3 ♔×h2

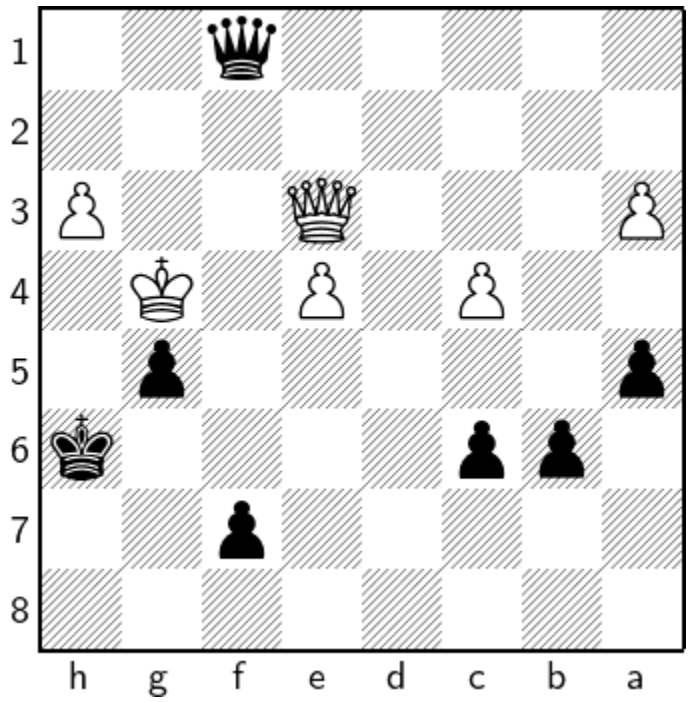
3 ♔×h2 ♘f3+

1.62 ?

1.62.1 ?



1…f5+ 2 e×f5 ♕g2+ 3 ♕g3 ♕e4+ 4 ♕f4 ♕×f4#

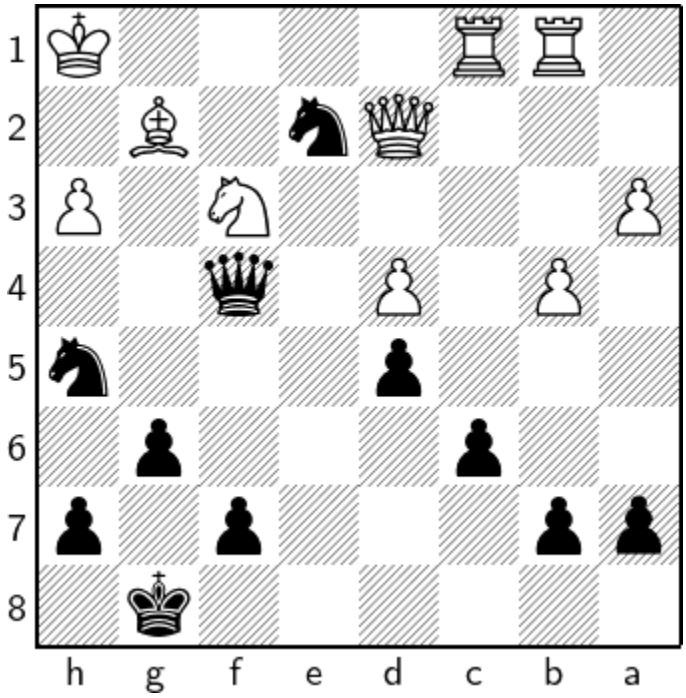


1…f5+ 2 e×f5

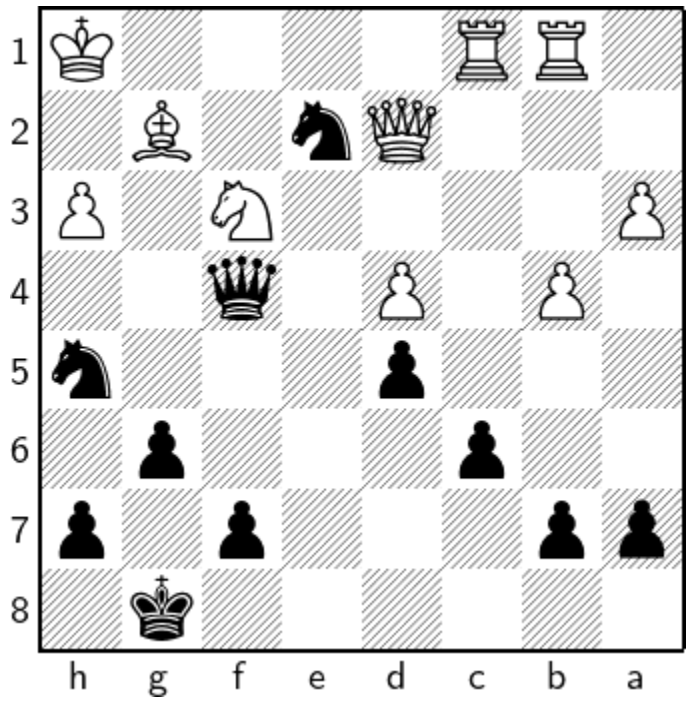
2 ♔g3 f4+ 3 ♕×f4 ♕×f4+ 4 ♔g2 ♔h5 5 a4 g4 6 h×g4+ ♔×g4 7 c5 ♕g3+ 8 ♔f1 ♔f3 9 e5 ♕f2#

1.63 ?

1.63.1 ?



1…♘hg3+ 2 ♔h2 ♘f1+ 3 ♔h1 ♕h2+ 4 ♘×h2 ♘fg3#



1…♘hg3+ 2 ♔h2 ♘f1+ 3 ♔h1 ♕h2+ 4 ♘×h2

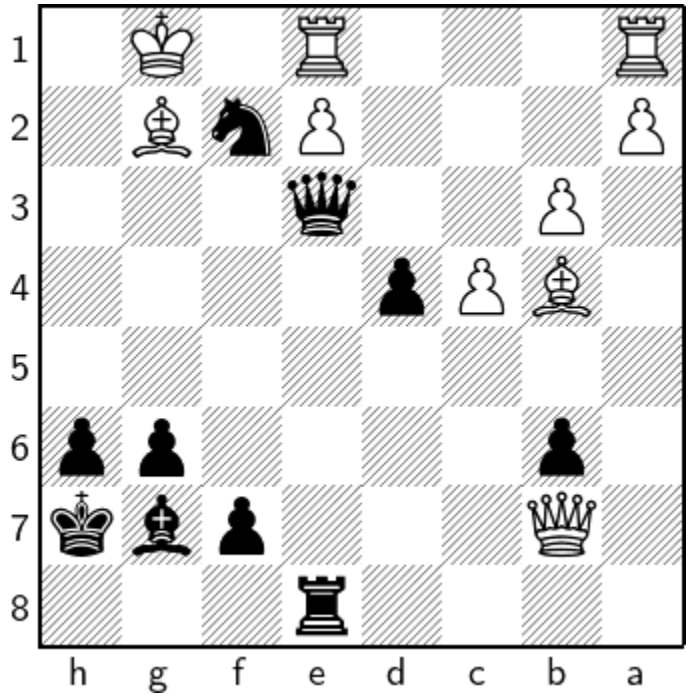
4 ♘×h2 ♘fg3#

4…♘fg3#

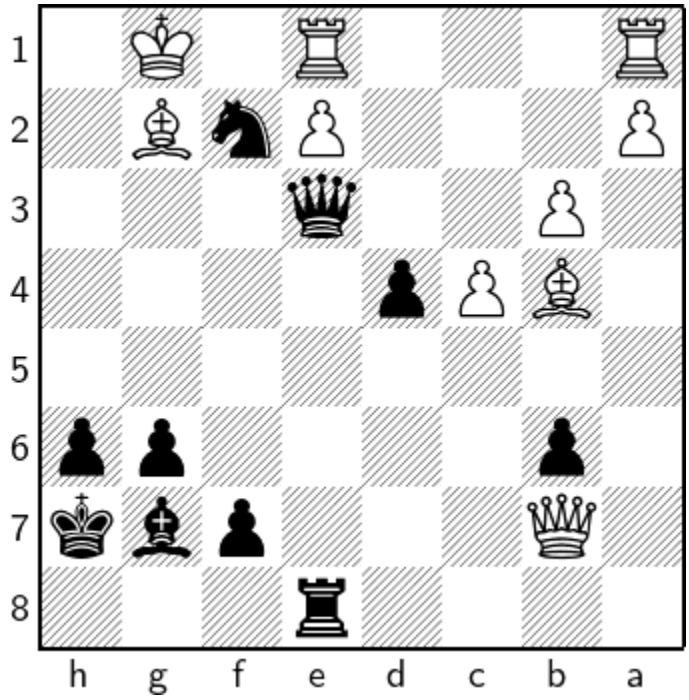
4…♘×d2 5 ♖b2 ♘×c1 6 ♖×d2

1.64 ?

1.64.1 ?



1…♘h3+ 2 ♔h1 ♕g1+ 3 ♖×g1 ♘f2+ 4 ♔h2 ♗e5#



1…♘h3+ 2 ♔h1

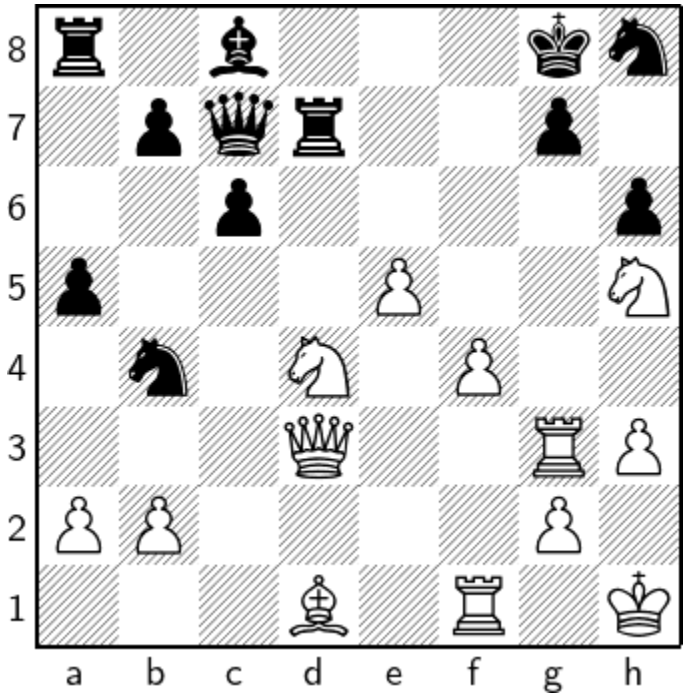
2 ♔h2 ♗e5+ 3 ♔h1 ♕g1+ 4 ♖×g1 ♘f2#

2…♕g1+ 3 ♖×g1

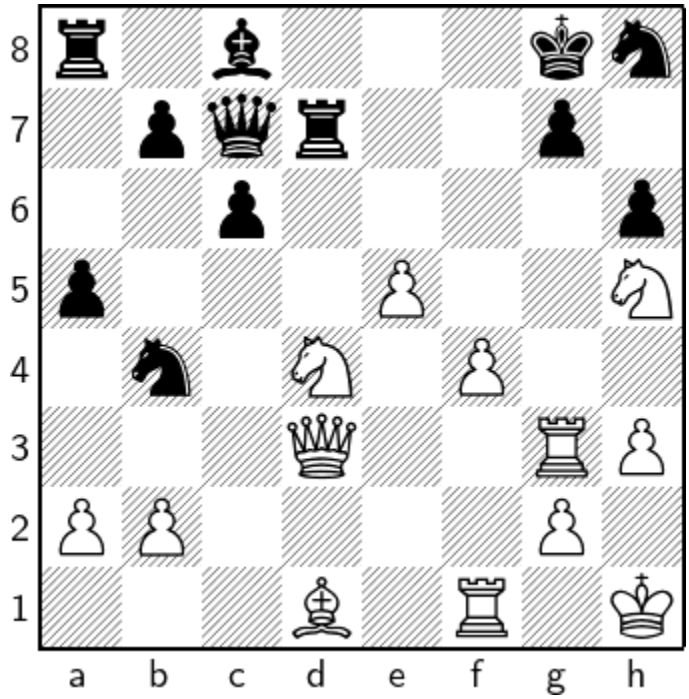
3 ♖×g1 ♘f2+

1.65 ?

1.65.1 ?



1 ♕h7+ ♔×h7 2 ♖×g7+ ♖×g7 3 ♘f6+ ♔g6 4 ♗h5#



1 ♕h7+ ♔×h7

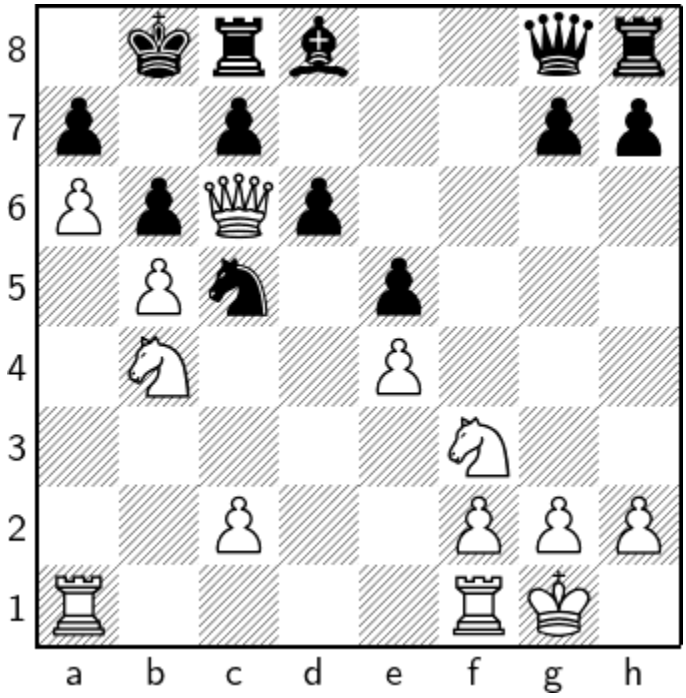
1…♔×h7 2 ♖×g7+

2 ♖×g7+ ♖×g7

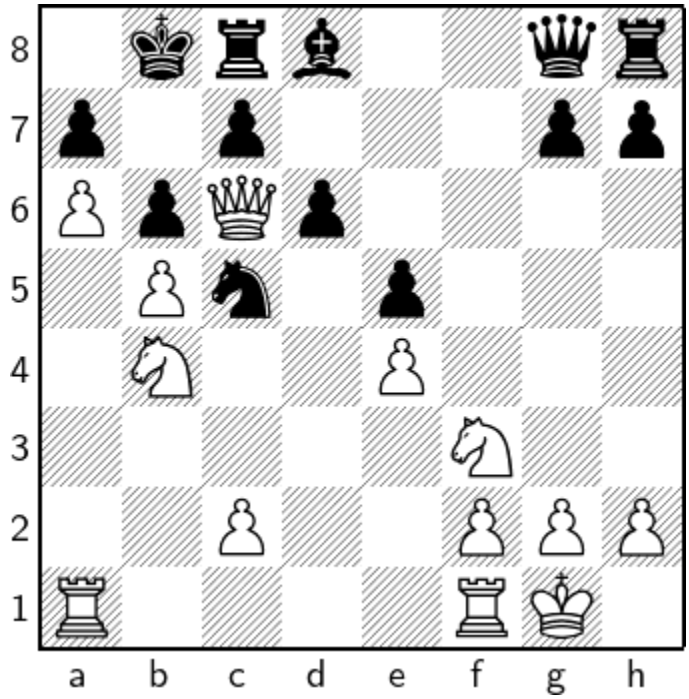
2…♖×g7 3 ♘f6+

1.66 ?

1.66.1 ?



1 ♕b7+ ♘×b7 2 ♘c6+ ♔a8 3 a×b7+ ♔×b7 4 ♖×a7#

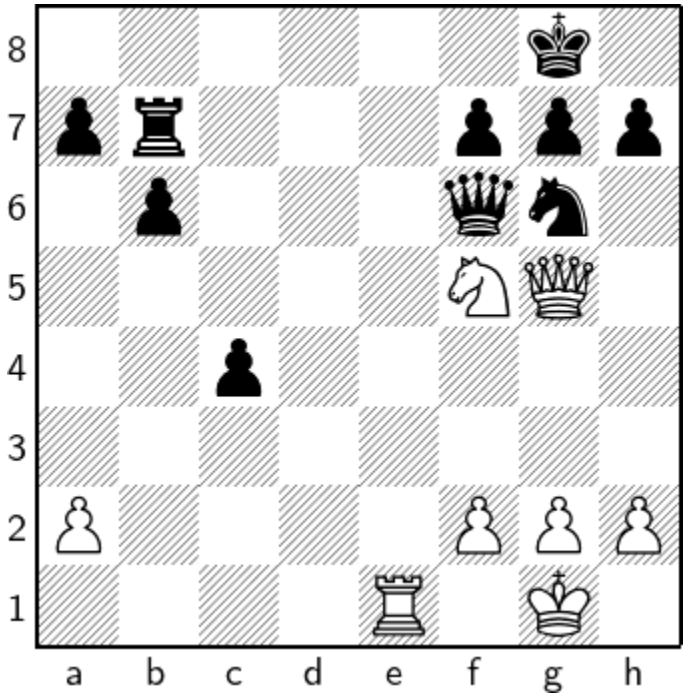


1 ♕b7+ ♘×b7

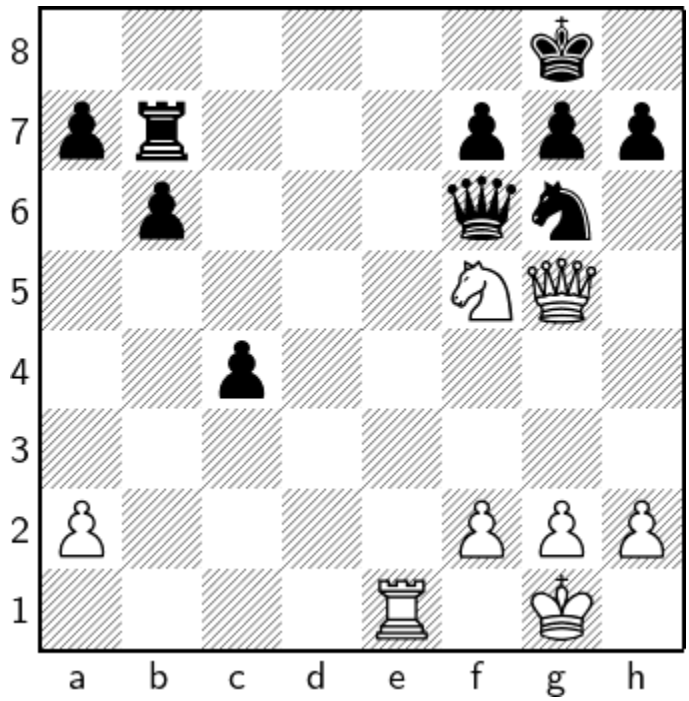
1…♘×b7 2 ♘c6+

1.67 ?

1.67.1 ?



1 ♖e8+ ♘f8 2 ♘h6+ ♕×h6 3 ♖×f8+ ♔×f8 4 ♕d8#



1 ♖e8+ ♘f8 2 ♘h6+ ♕×h6

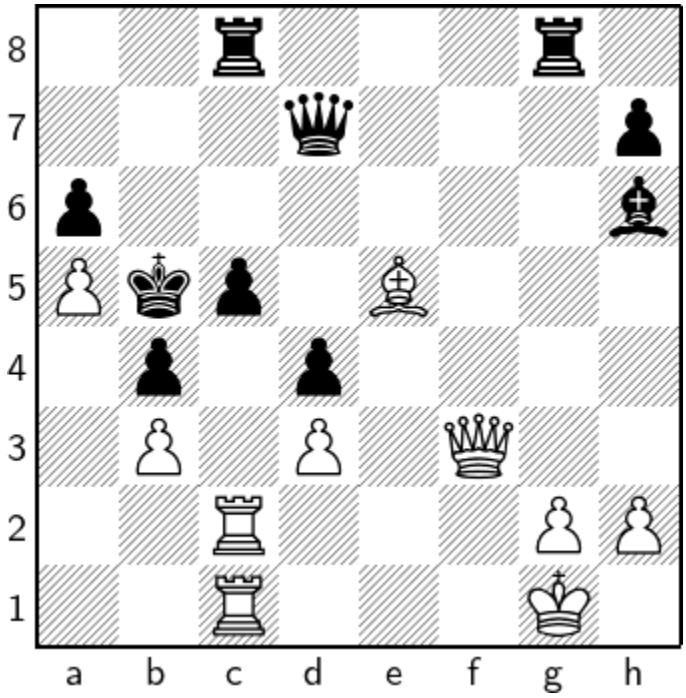
2…♕×h6 3 ♖×f8+

3 ♖×f8+ ♔×f8

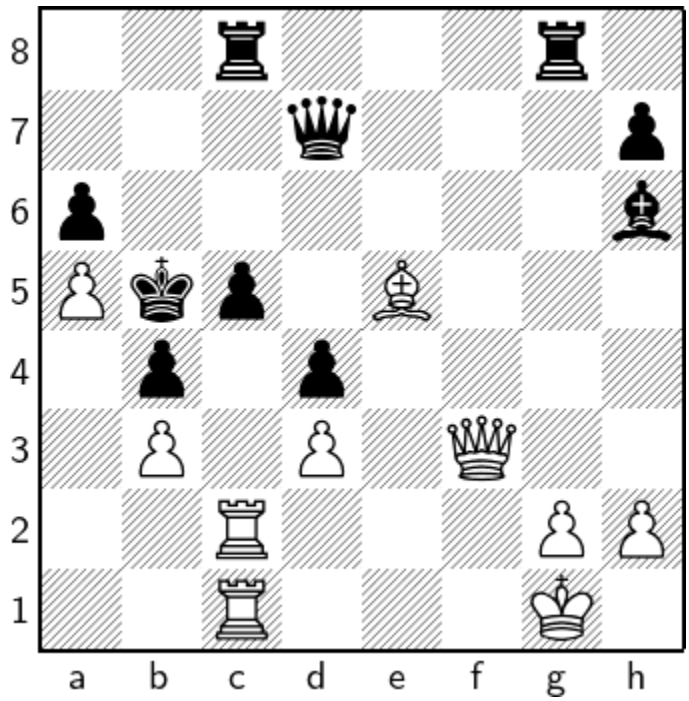
3…♔×f8 4 ♕d8#

1.68 ?

1.68.1 ?



1 ♗c7 ♕×c7 2 ♖×c5+ ♕×c5 3 ♕b7+ ♔×a5 4 ♖a1#



1 ♗c7 ♕×c7

a) 1…♖×c7 2 ♕b7+

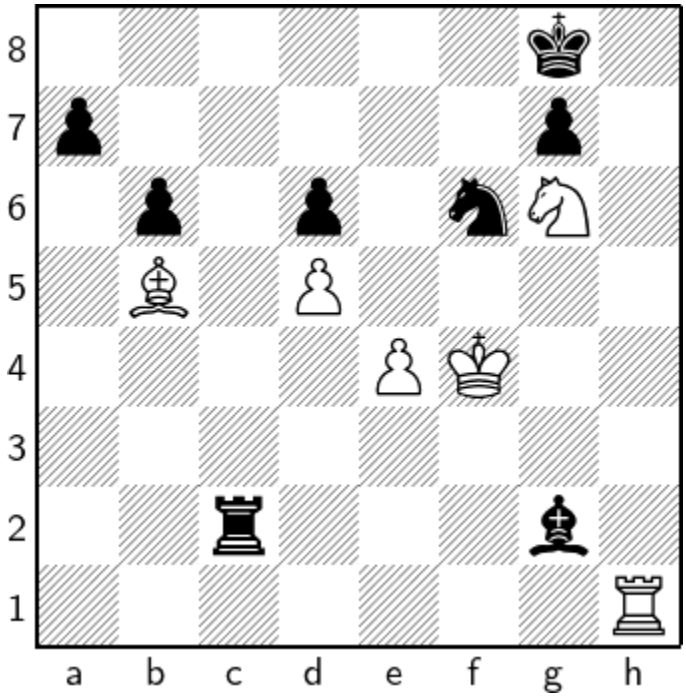
b) 1…♕×c7 2 ♖×c5+

2 ♖×c5+ ♕×c5 3 ♕b7+ ♔×a5

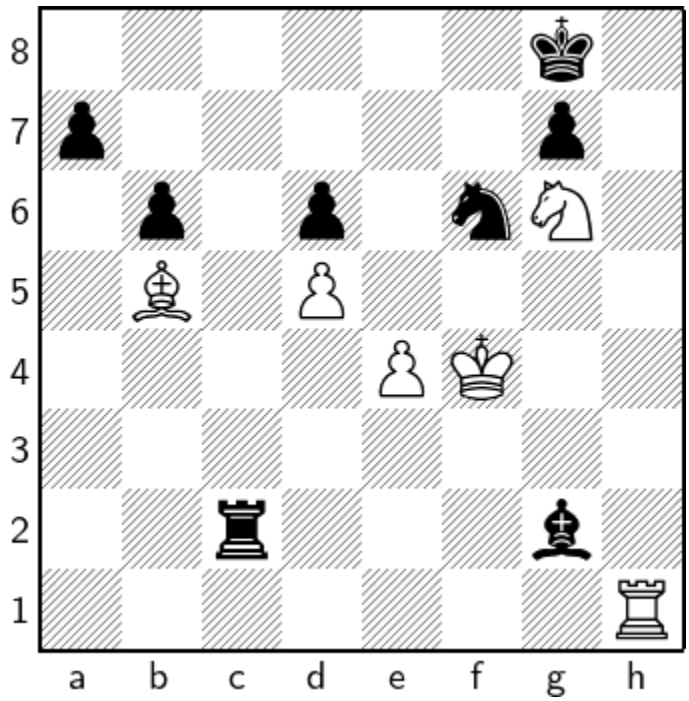
3…♕b6 4 ♕×b6#

1.69 ?

1.69.1 ?



1 ♖h8+ ♔f7 2 ♗e8+ ♘×e8 3 ♔g5

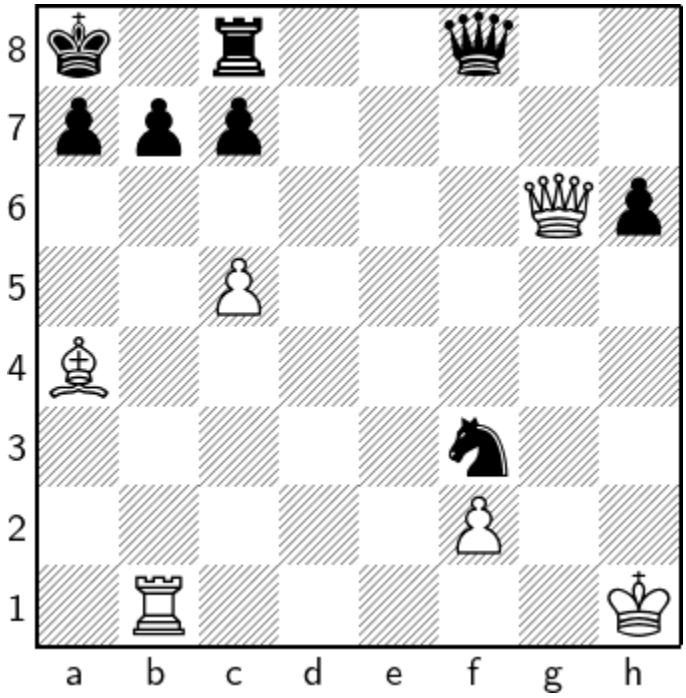


1 ♖h8+ ♔f7 2 ♗e8+ ♘×e8

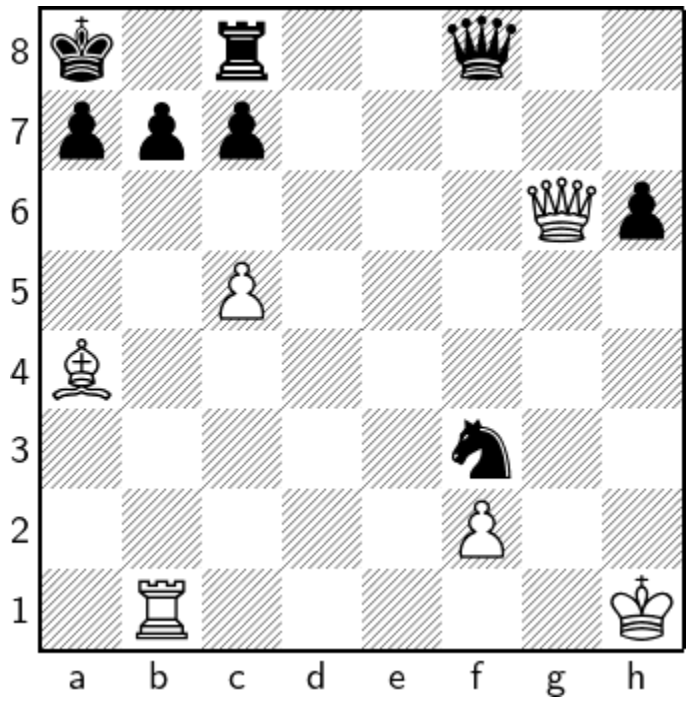
2…♘×e8 3 ♔g5

1.70 ?

1.70.1 ?



1 ♕a6 ♖b8 2 ♗c6 ♕c8 3 ♕×a7+ ♔×a7 4 ♖a1#



1 ♕a6 ♖b8

1…b×a6 2 ♗c6#

2 ♗c6 ♕c8

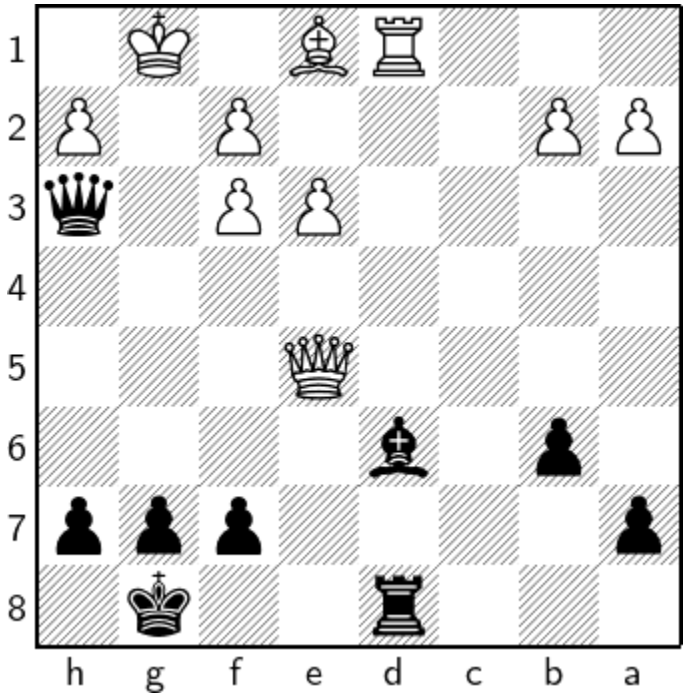
2…b×c6 3 ♕×c6+

3 ♕×a7+ ♔×a7

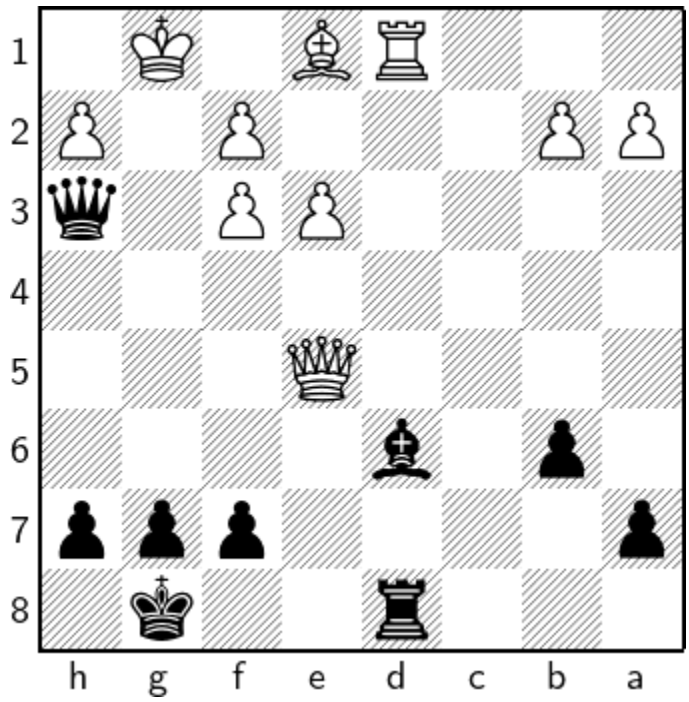
3…♔×a7 4 ♖a1#

1.71 ?

1.71.1 ?



1…♕×h2+ 2 ♕×h2 ♗×h2+ 3 ♔×h2 ♖×d1



1…♕×h2+

1…♗×e5 2 ♖×d8#

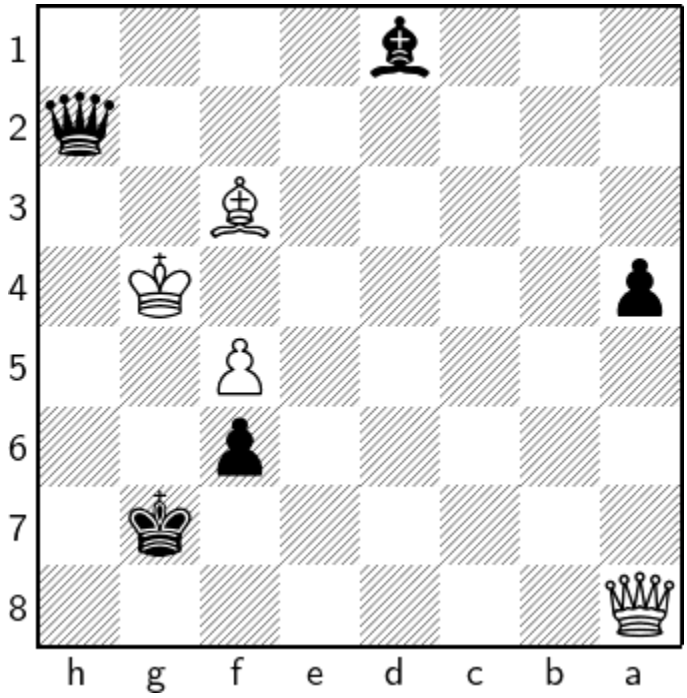
2 ♕×h2

a) 2 ♕×h2 ♗×h2+ 3 ♔f1
a1) *3 ♔g2 ♖×d1*
a2) *3 ♔h1 ♖×d1*
a3) *3 ♔×h2 ♖×d1* 3…♖×d1

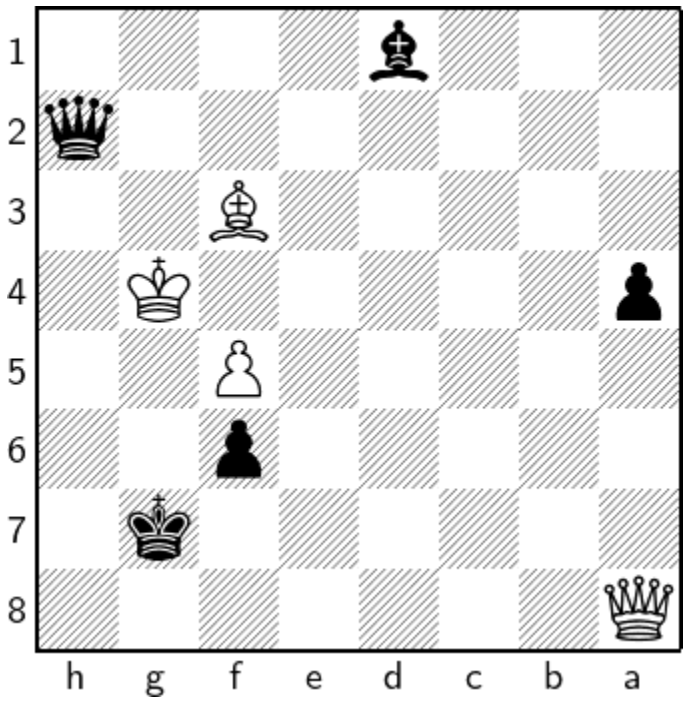
b) 2 ♔×h2 ♗×e5+

1.72 ?

1.72.1 ?



1…♕g2+ 2 ♔h4 ♕f2+ 3 ♔g4 ♕×f3+ 4 ♕×f3 ♗×f3+



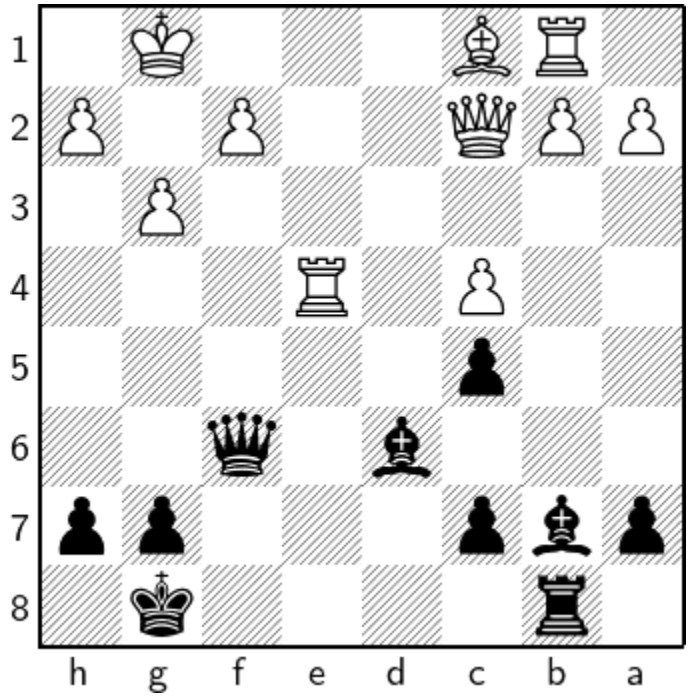
1…♕g2+ 2 ♔h4 ♕f2+

a) 2…♗×f3 3 ♕g8+ ♔×g8

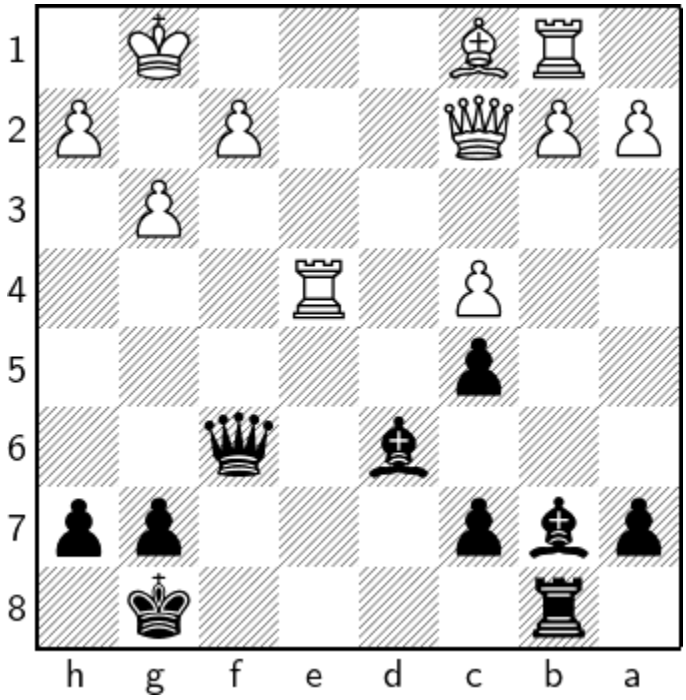
b) 2…♕×f3 3 ♕f8+ ♔×f8

1.73 ?

1.73.1 ?

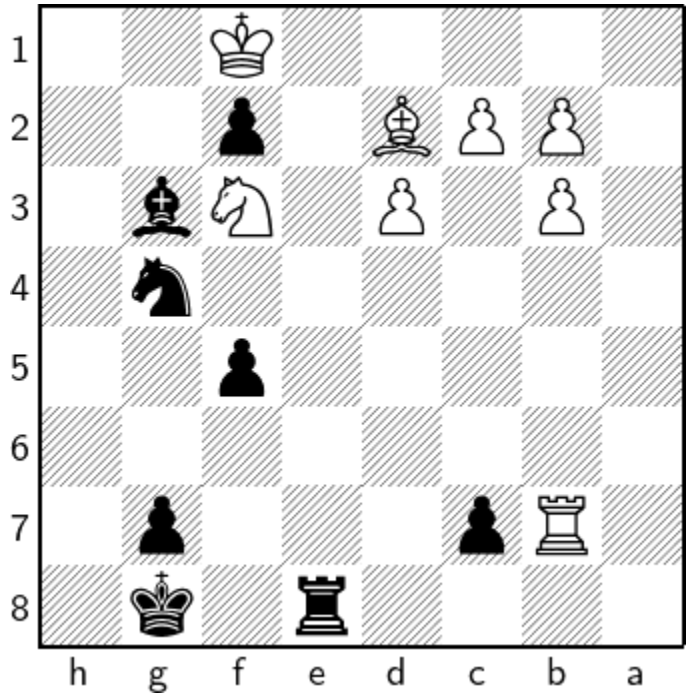


1…♕f3

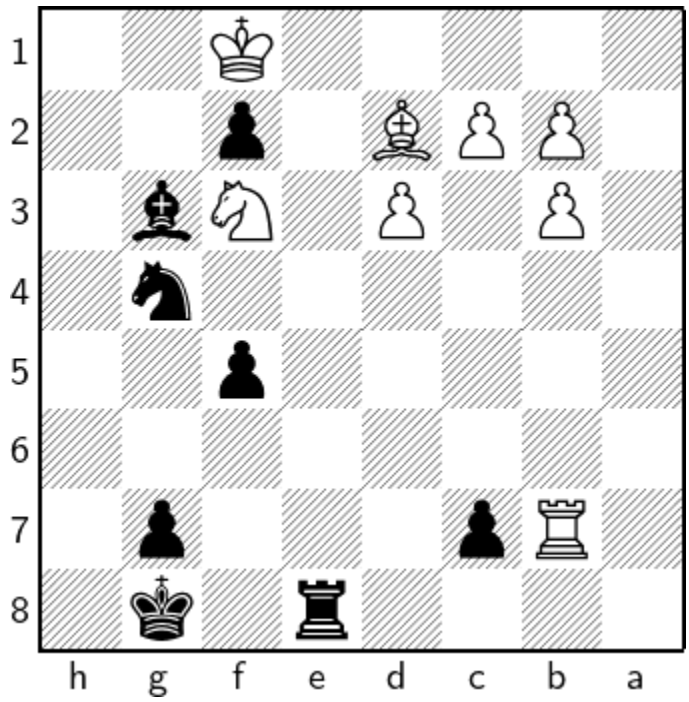


1.74 ?

1.74.1 ?



1…♖e1+ 2 ♘×e1 ♘h2+



1…♖e1+ 2 ♘×e1

a) 2 ♗×e1 f×e1♕+

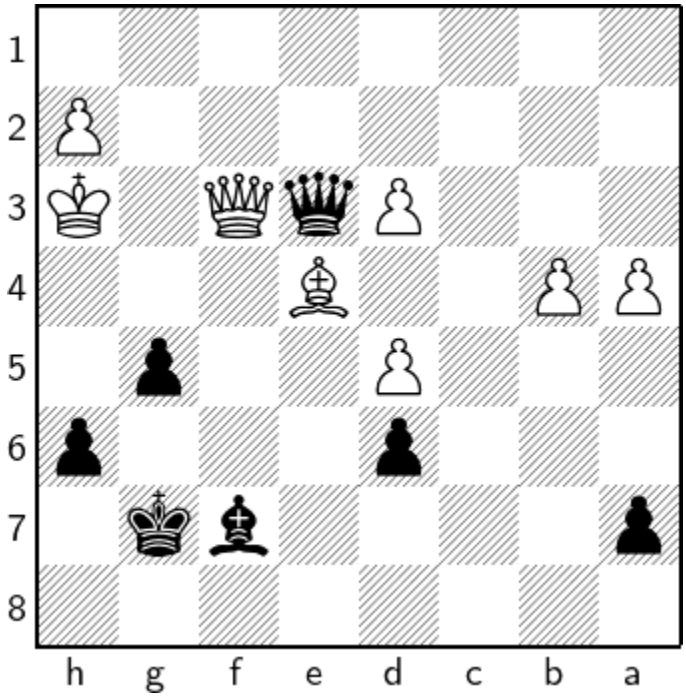
b) 2 ♘×e1 ♘e3+

2…♘h2+

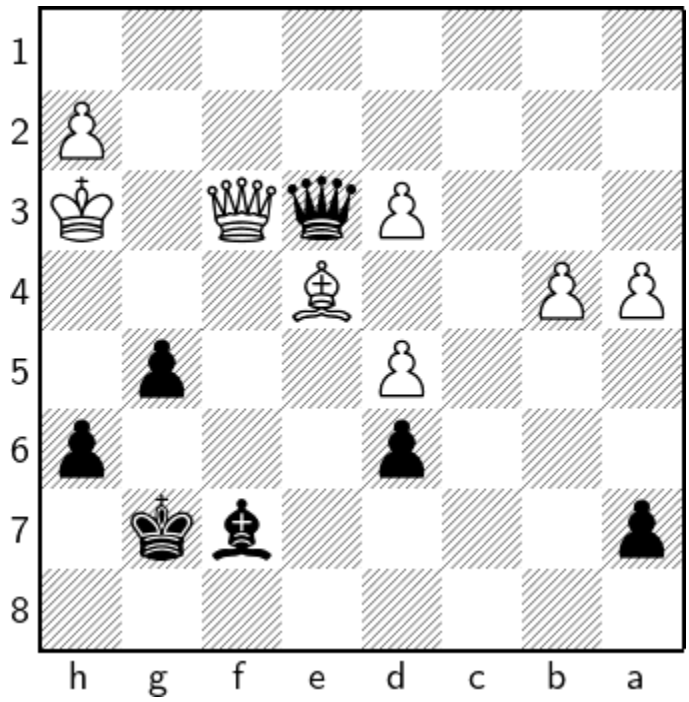
2…♘e3+ 3 ♗×e3 f×e1♕+ 4 ♔g2 ♕×e3 5 ♖b8+ ♔h7 6 ♖h8+ ♔×h8 7 c3 ♕f2+ 8 ♔h3 ♕h2#

1.75 ?

1.75.1 ?



1…g4+ 2 ♔×g4 ♗h5+ 3 ♔×h5 ♕g5#

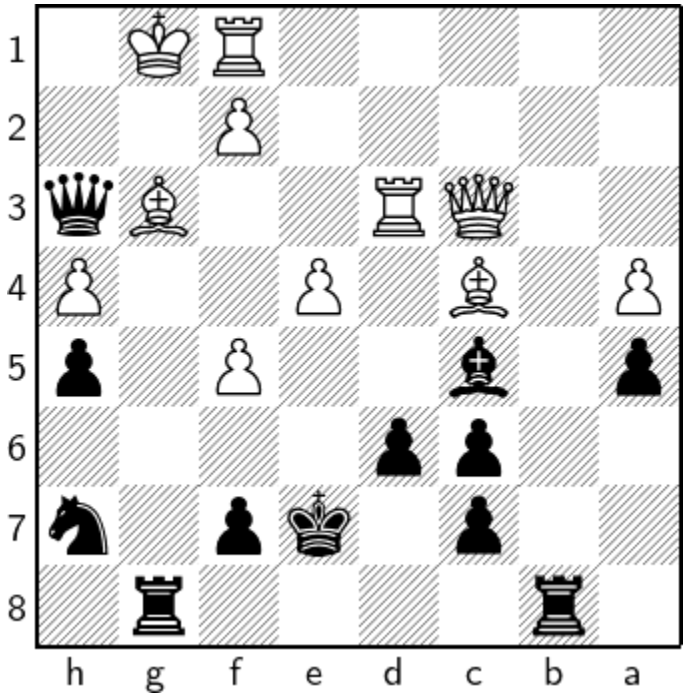


1…g4+ 2 ♔×g4 ♗h5+ 3 ♔×h5

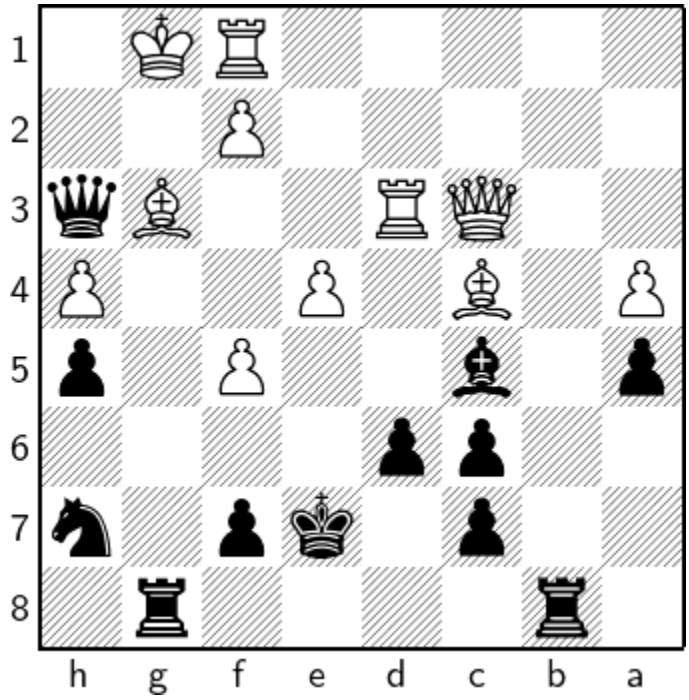
3 ♔g3 ♗×f3 4 ♗×f3 ♕×d3 5 b5

1.76 ?

1.76.1 ?

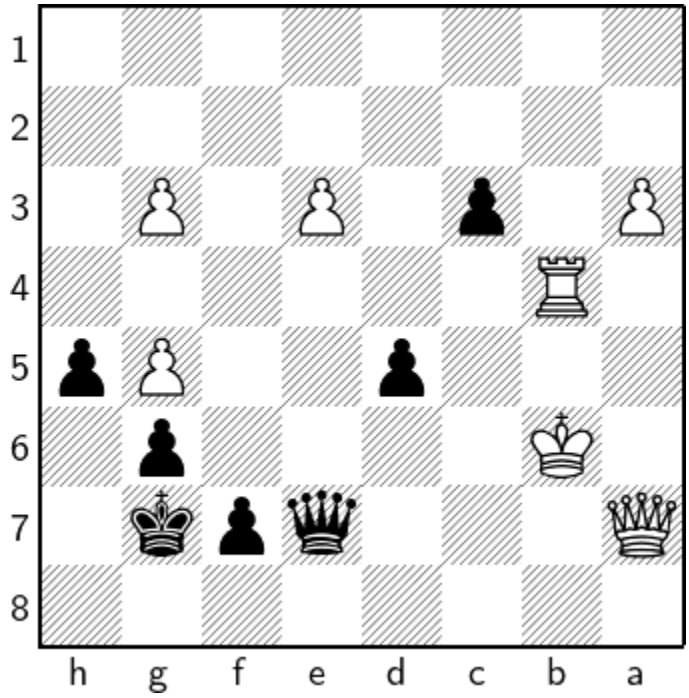


1…♖×g3+ 2 ♖×g3 ♖g8

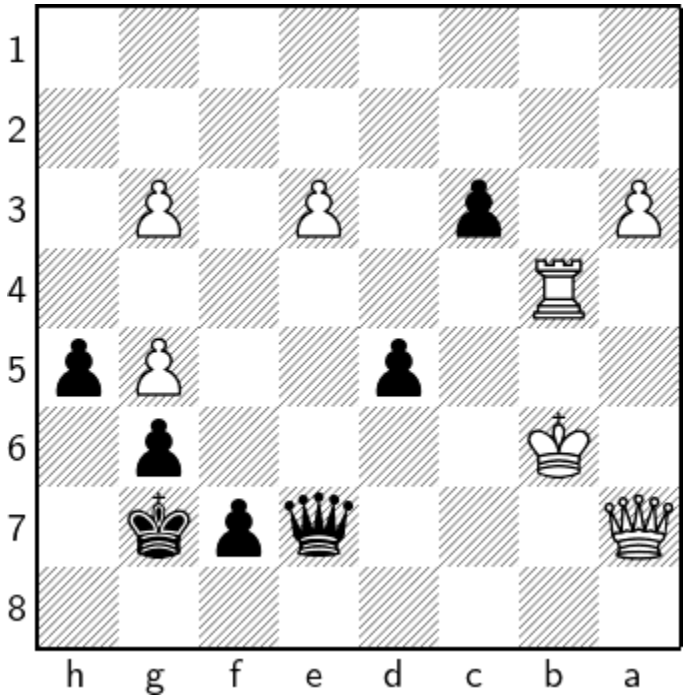


1.77 ?

1.77.1 ?

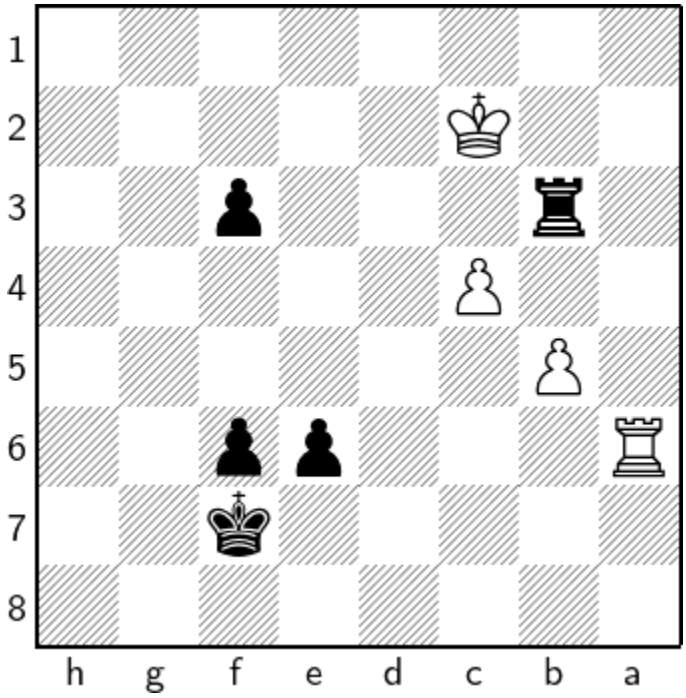


1…♕×a7+ 2 ♔×a7 c2

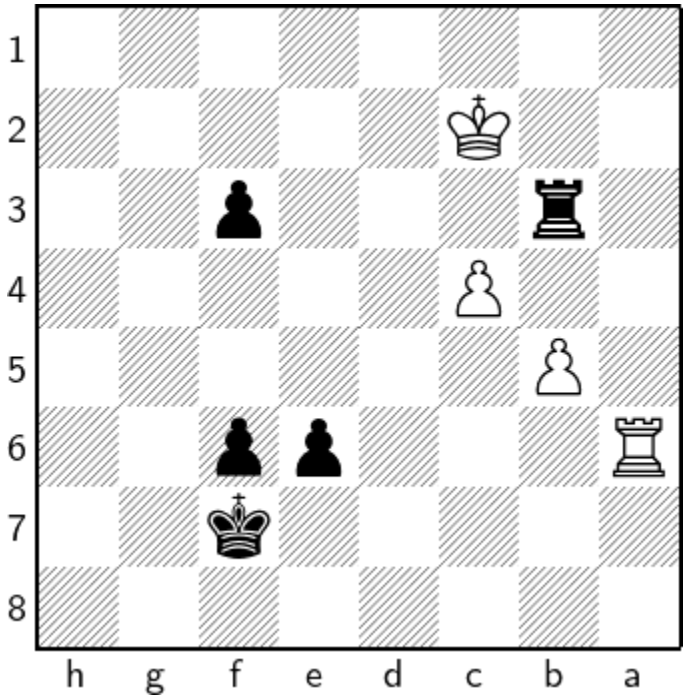


1.78 ?

1.78.1 ?

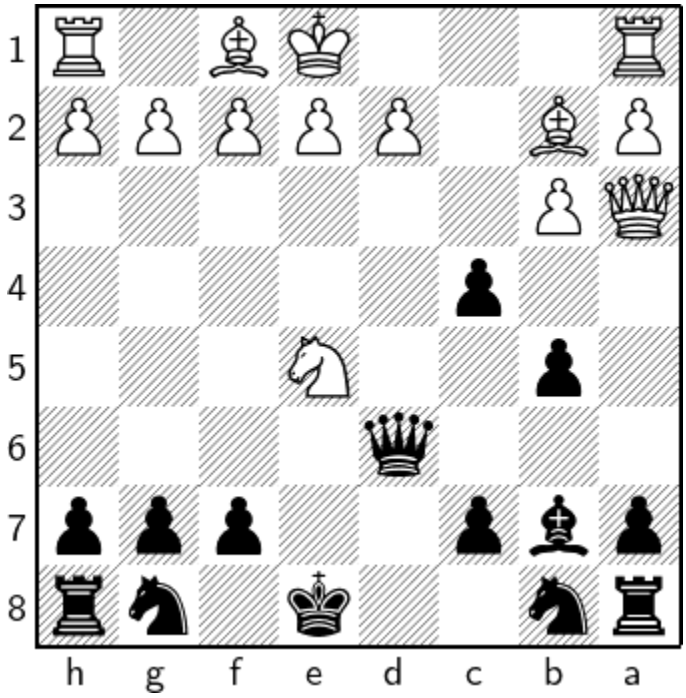


1…♖b1 2 ♔×b1 f2

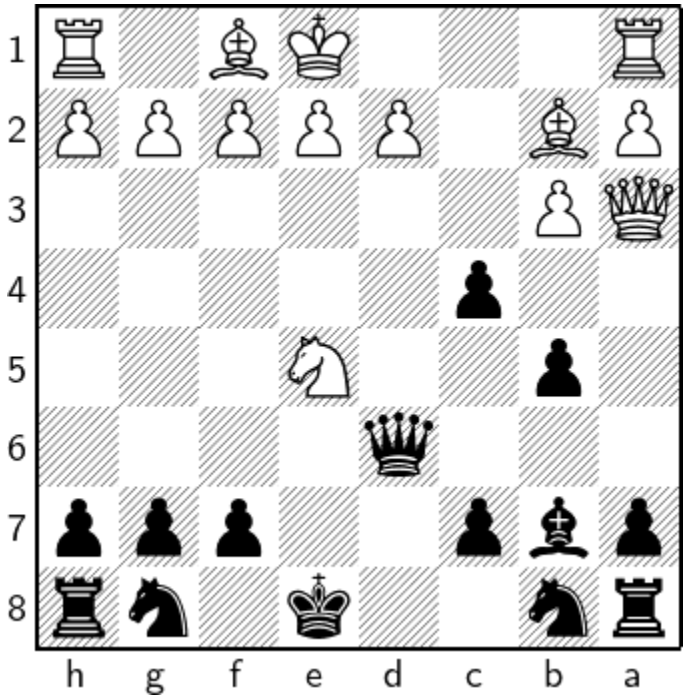


1.79 ?

1.79.1 ?



1…c3 2 ♕×d6 c×d6



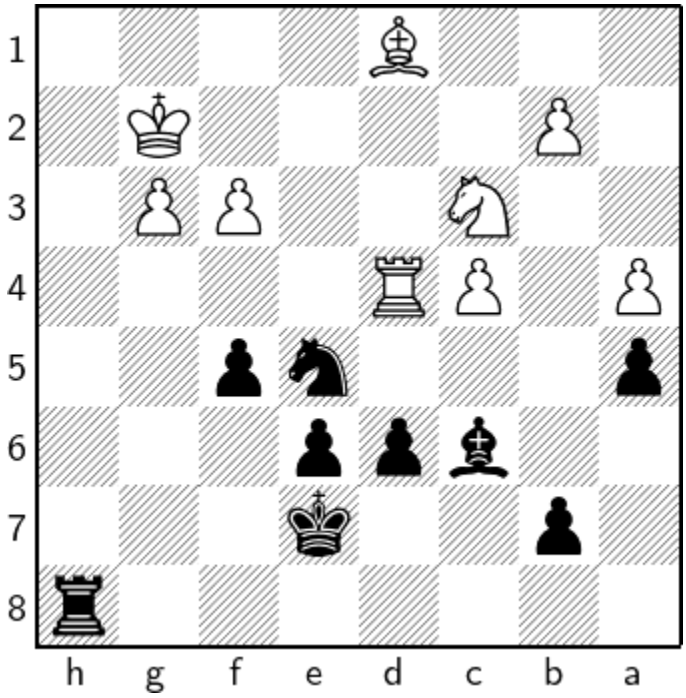
1…c3 2 ♕×d6

a) 2 ♗×c3 ♕×a3

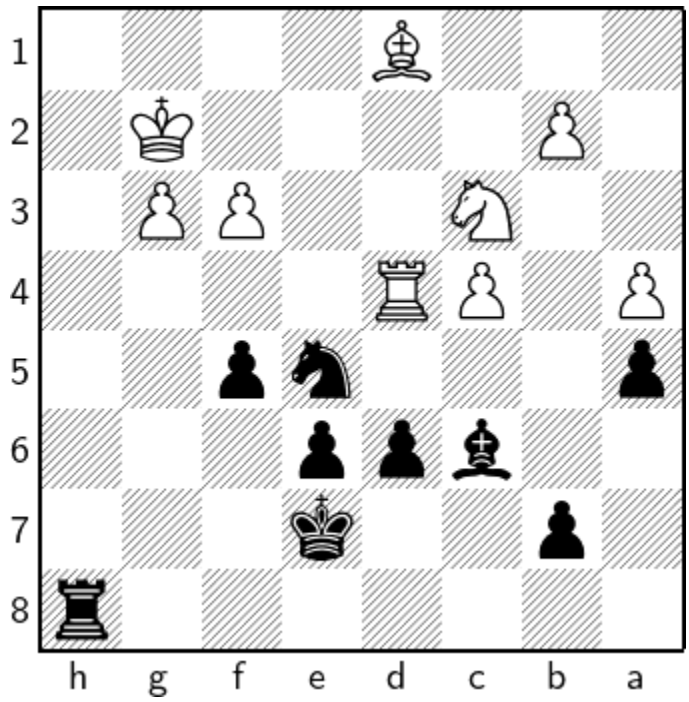
b) 2 d×c3 ♕×e5

1.80 ?

1.80.1 ?

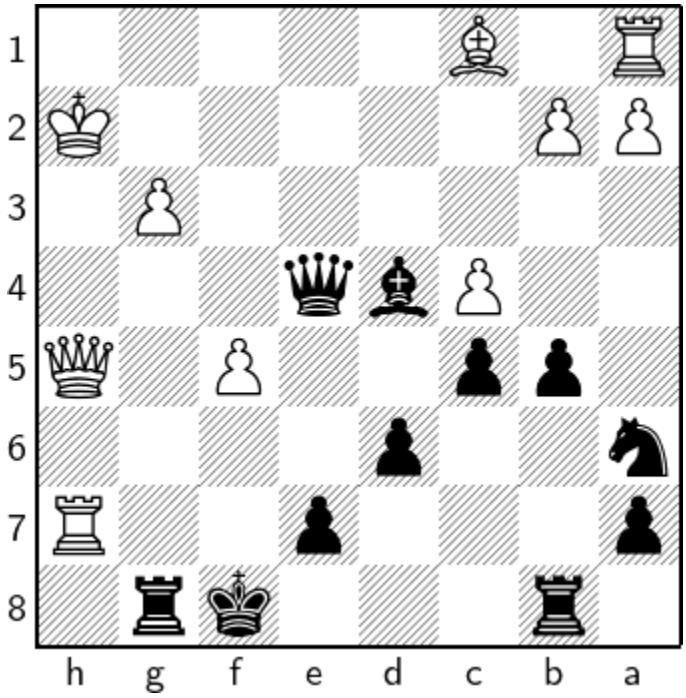


1…♗×f3+ 2 ♗×f3 ♖h2+ 3 ♔×h2 ♘×f3+ 4 ♔g2 ♘×d4

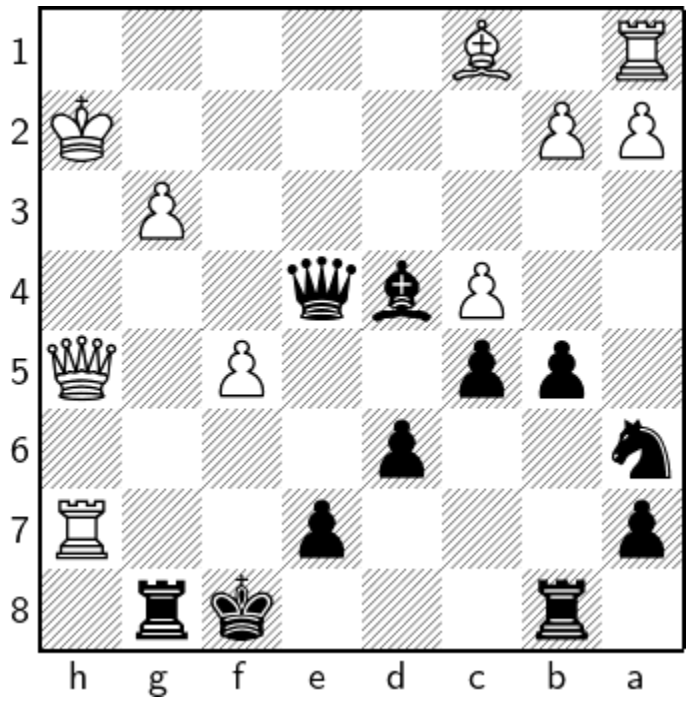


1.81 ?

1.81.1 ?



1…♗g1+ 2 ♔×g1 ♕e1+

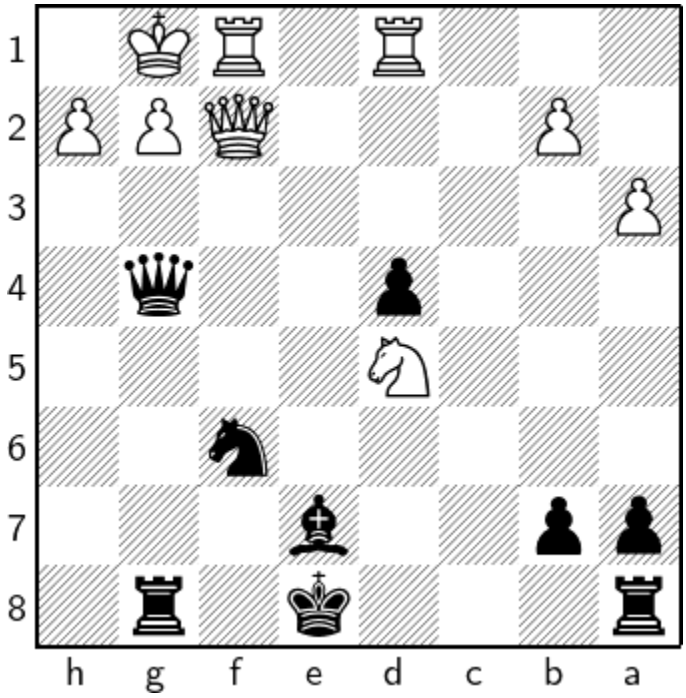


1…♗g1+ 2 ♔×g1

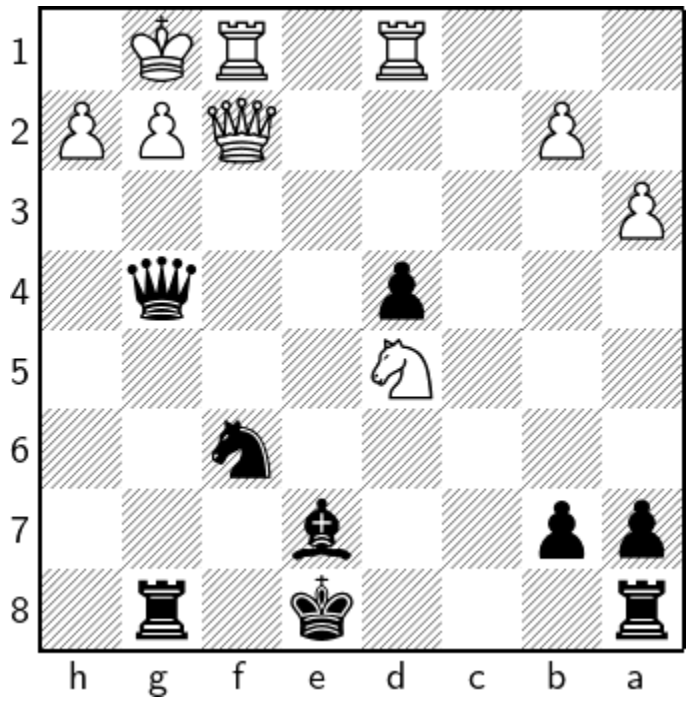
2 ♔×g1 ♕e1+

1.82 ?

1.82.1 ?

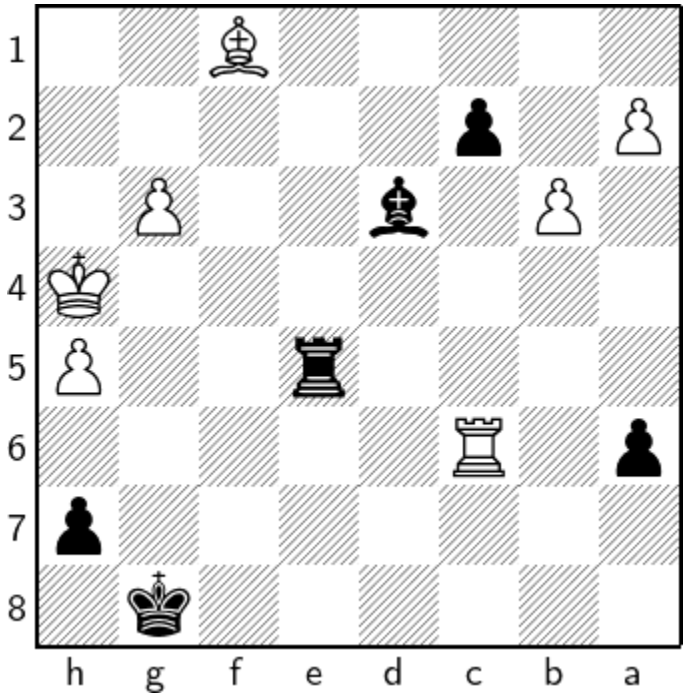


1…♕×g2+ 2 ♕×g2 ♖×g2+ 3 ♔×g2 ♘×d5 4 ♖×d4 ♘e3+

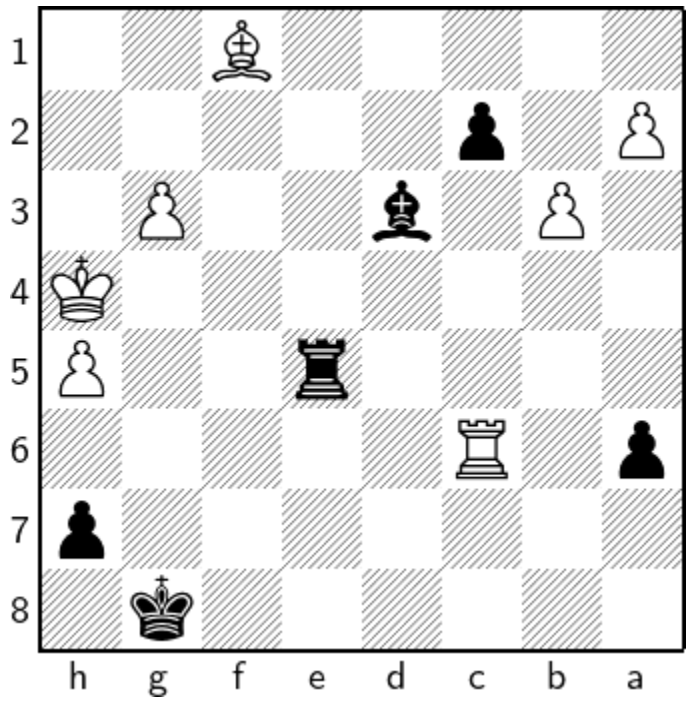


1.83 ?

1.83.1 ?



1…♖e4+ 2 ♔h3 ♖c4 3 b×c4 ♗×f1+



1…♖e4+

1…♗×f1 2 ♖×c2 ♗e2 3 ♖c8+ ♔f7 4 g4

2 ♔h3

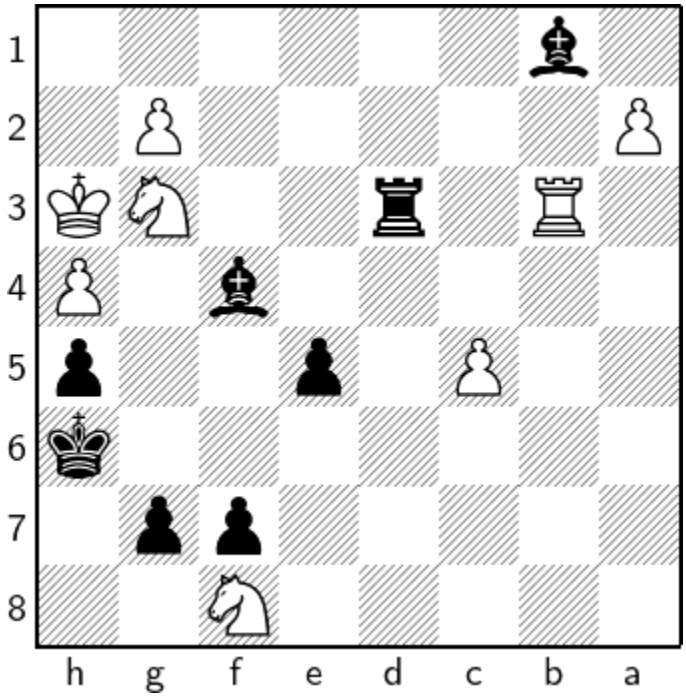
2 g4 ♖c4 3 ♖×c4 ♗×c4 4 ♗×c4+ ♔g7 5 ♗×a6

2…♖c4

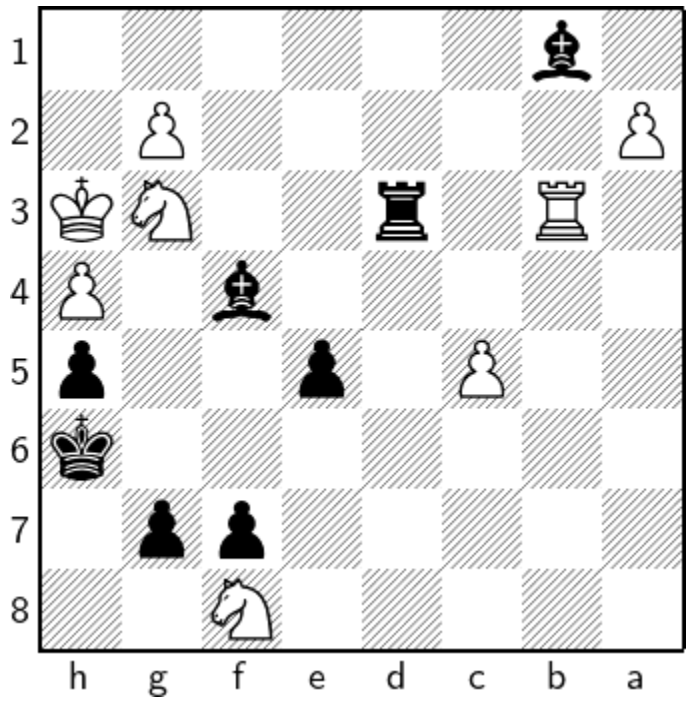
2…♗×f1+ 3 ♔h2 ♖c4 4 ♖×c4 ♗×c4 5 b×c4 c1♕ 6 ♔g2 ♕×c4 7 a3 ♕e2+ 8 ♔h3 ♕×h5+ 9 ♔g2 ♕e2+ 10 ♔h1 ♔g7 11 a4 ♔f6 12 g4 ♔g5 13 a5 ♔×g4 14 ♔g1 ♔g3 15 ♔h1 ♕d1#

1.84 ?

1.84.1 ?

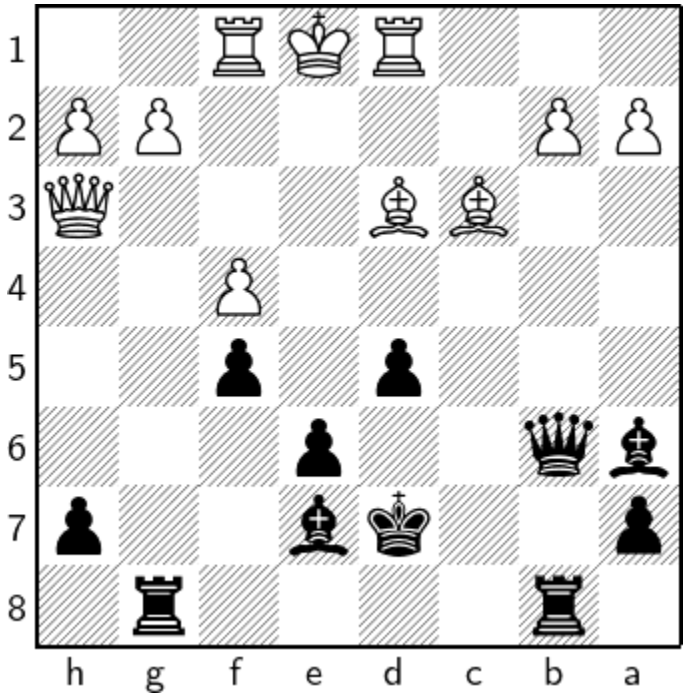


1…♖×g3+ 2 ♖×g3 ♗f5+ 3 ♔h2 g5 4 h×g5+ ♔g7

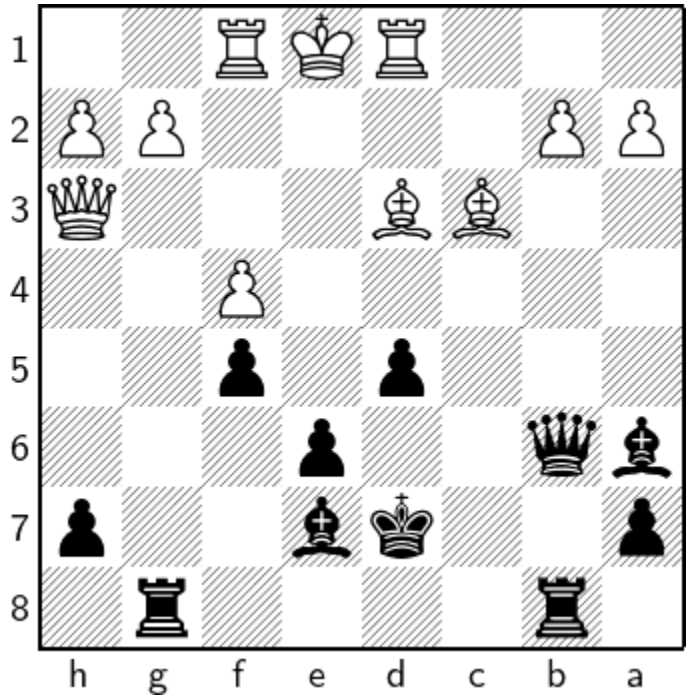


1.85 ?

1.85.1 ?



1…♖g3 2 ♕×g3 ♗h4 3 ♕×h4 ♕e3+ 4 ♗e2 ♕×e2#

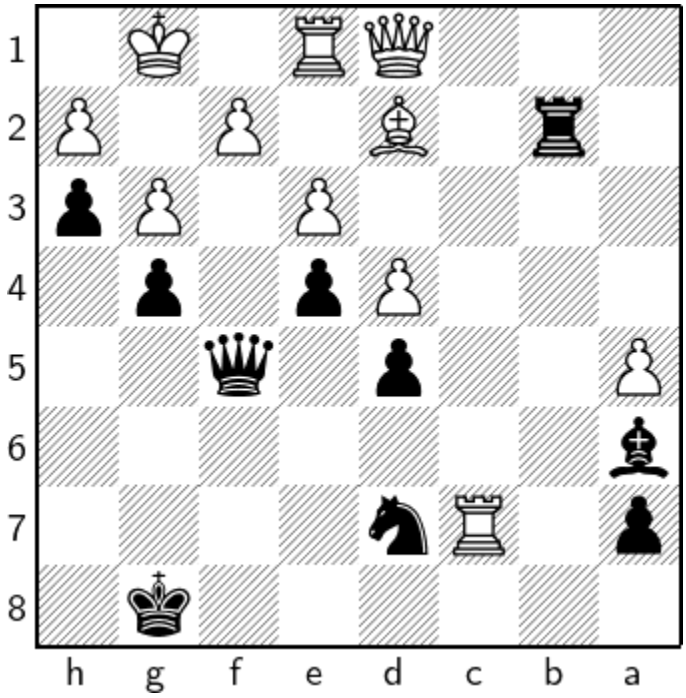


1…♖g3 2 ♕×g3 ♗h4 3 ♕×h4

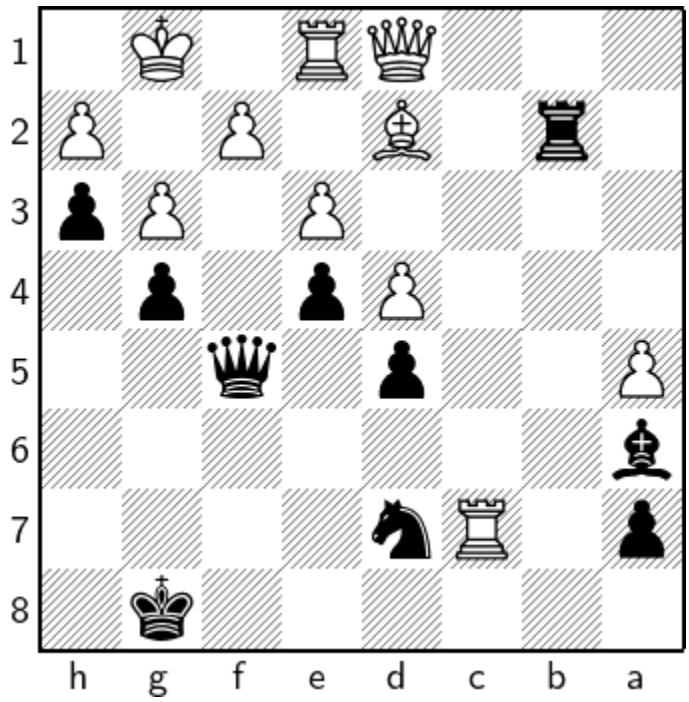
3 ♗×a6 ♗×g3+ 4 h×g3 ♕×a6 5 ♖h1

1.86 ?

1.86.1 ?



1…♖×d2 2 ♕×d2 ♕f3

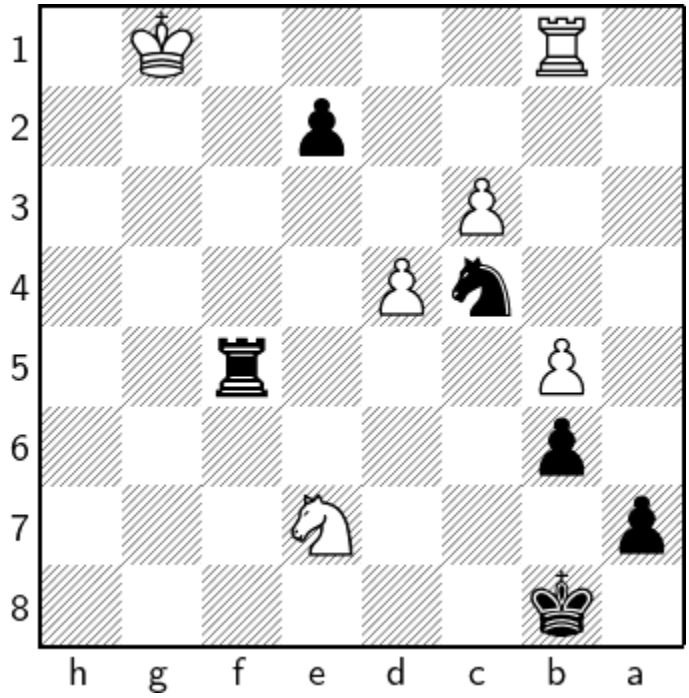


1…♖×d2 2 ♕×d2

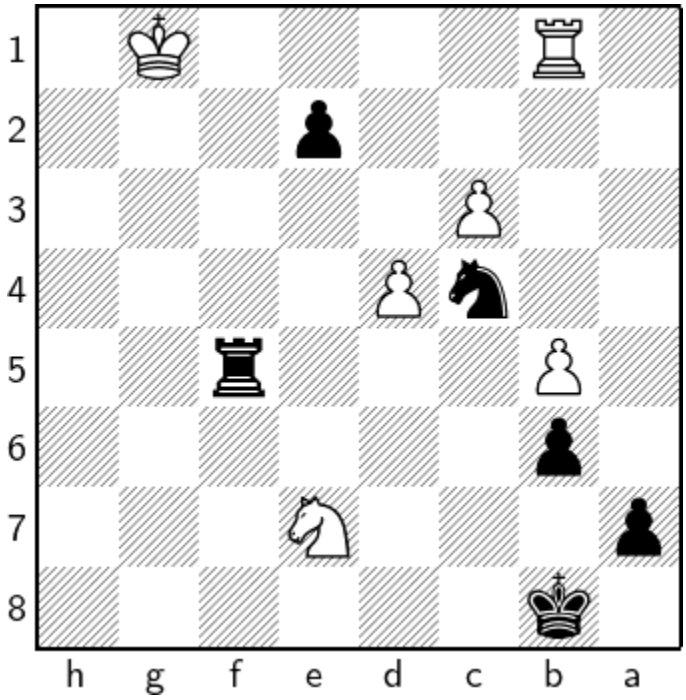
2 ♕×d2 ♕f3

1.87 ?

1.87.1 ?

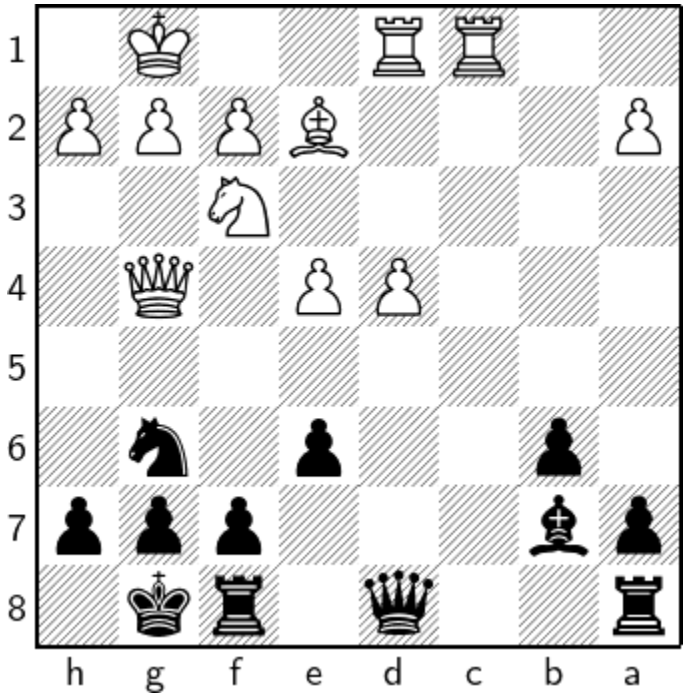


1…♘e3 2 ♘×f5 ♘d1

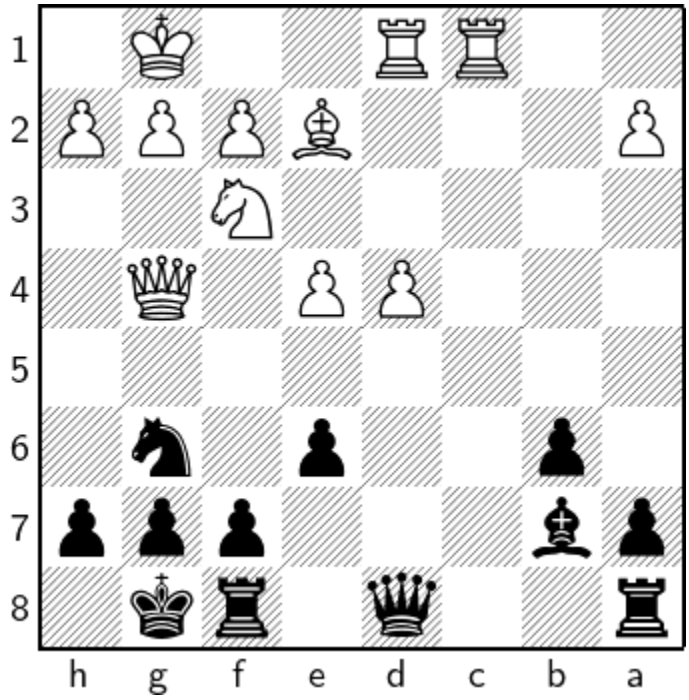


1.88 ?

1.88.1 ?

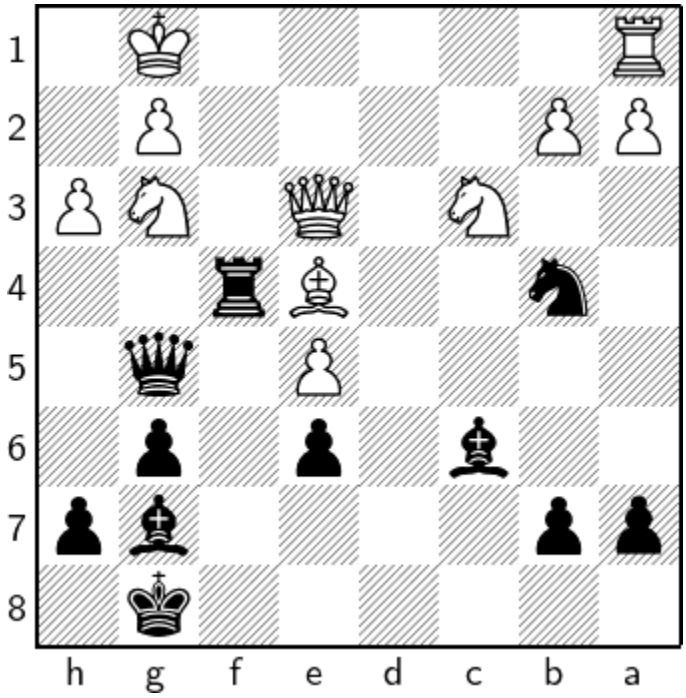


1…h5 2 ♕×h5 ♘f4 3 ♕b5 ♗×e4

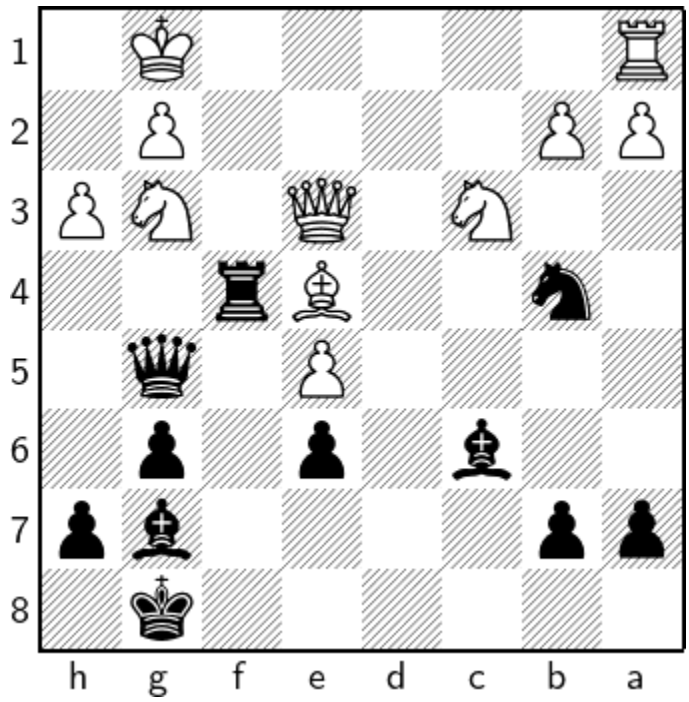


1.89 ?

1.89.1 ?



1…♘c2 2 ♗×c2 ♖f1+ 3 ♖×f1 ♕×e3+



1…♘c2 2 ♗×c2

2 ♗×c2 ♖f1+ 3 ♖×f1
a) *3 ♔×f1 ♕×e3*
b) *3 ♔h2 ♕×e3*
c) *3 ♘×f1 ♕×g2#* 3…♕×e3+

2…♖f1+ 3 ♖×f1

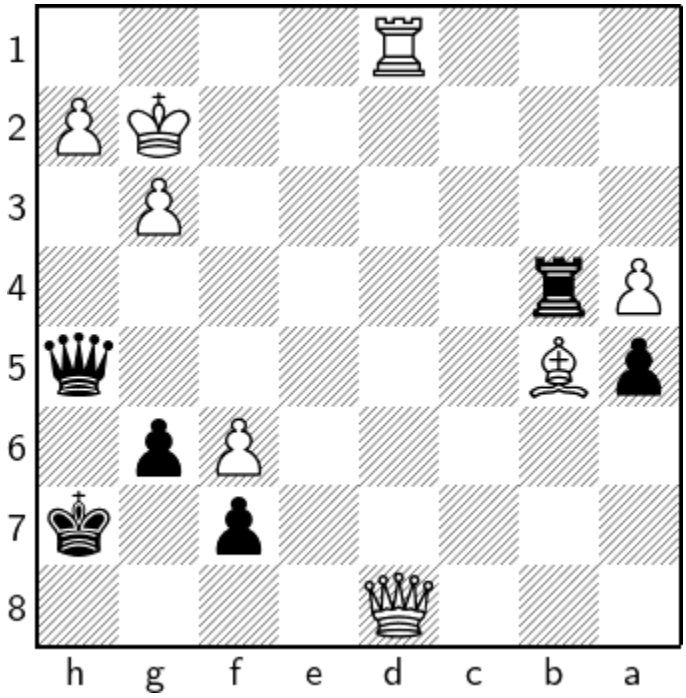
a) 3 ♖×f1 ♕×e3+

b) 3 ♔×f1 ♕×e3

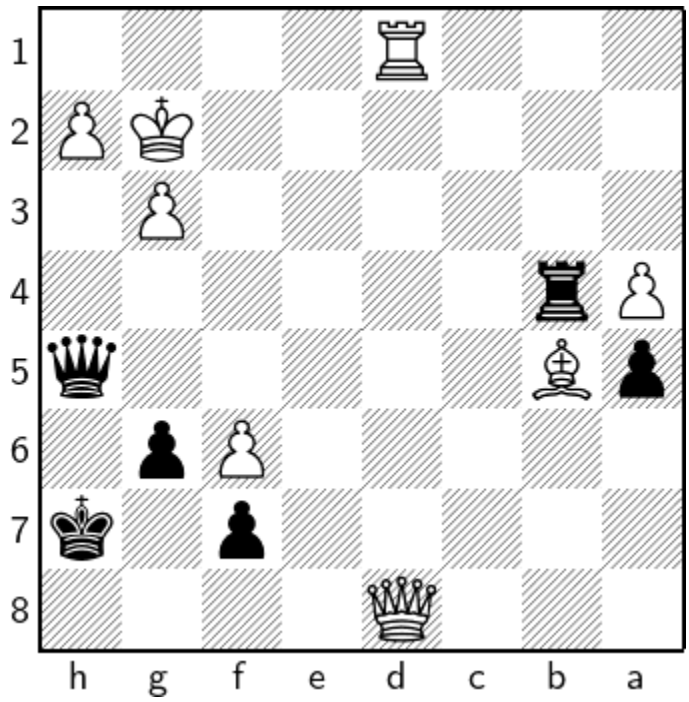
c) 3 ♘×f1 ♕×g2#

1.90 ?

1.90.1 ?

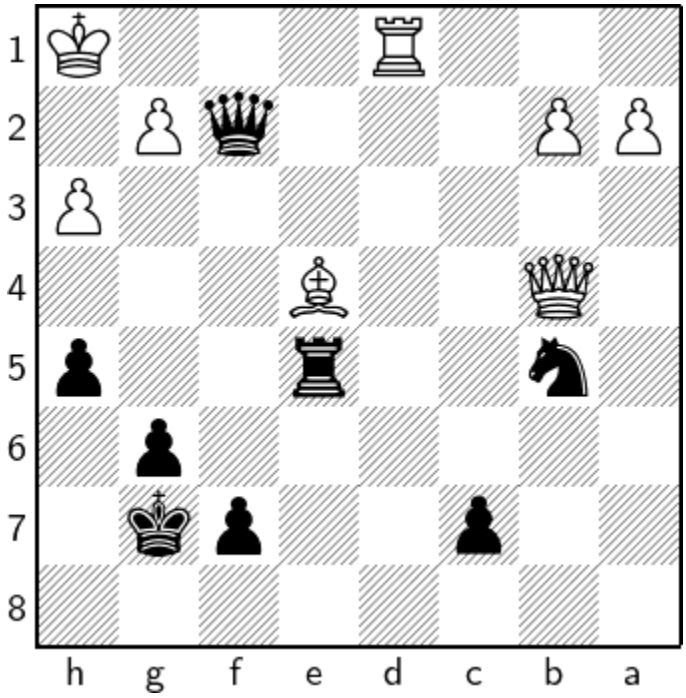


1…♖b2+ 2 ♖d2 ♕d1 3 ♖×b2 ♕×d8

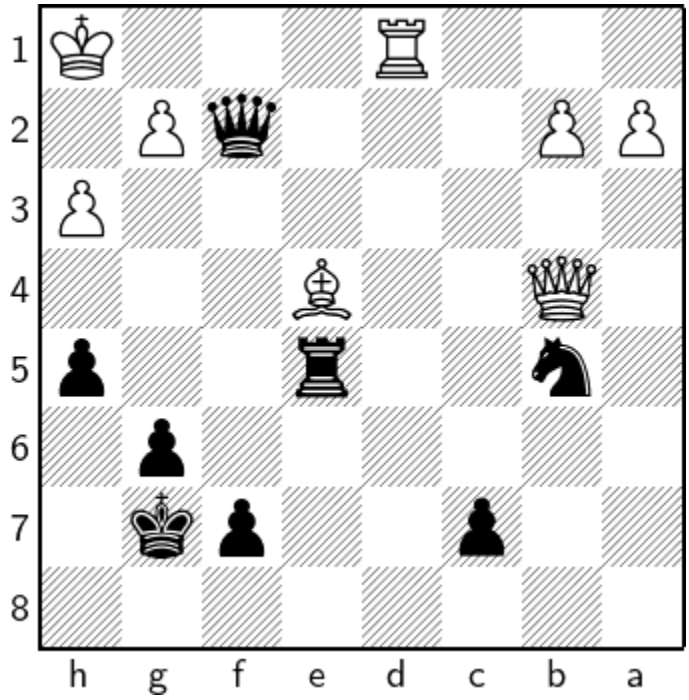


1.91 ?

1.91.1 ?



1…♕h4 2 ♖e1 ♘d4 3 ♕×d4 ♕×e1+



1…♕h4 2 ♖e1

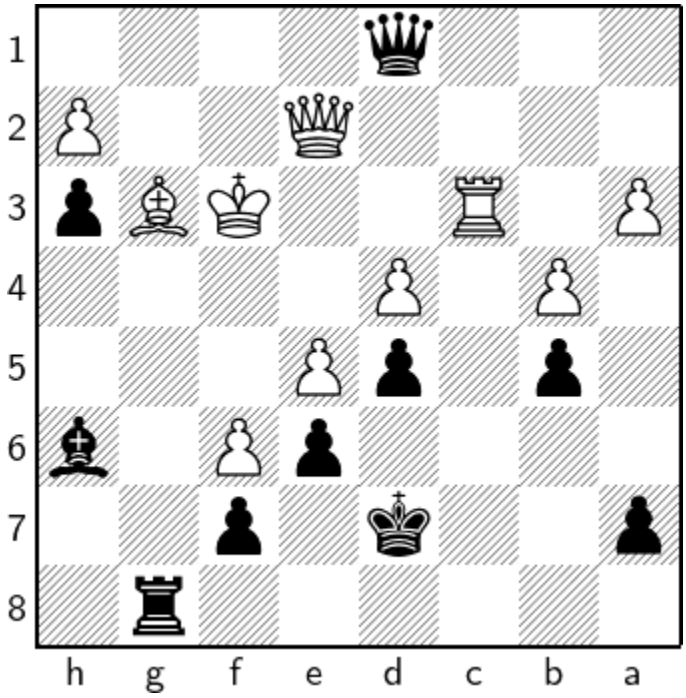
2 a4 ♘d6
a) *2…♖×e4 3 ♕×b5 ♖×a4 4 ♖f1*
b) *2…♕×e4 3 ♕×e4 ♖×e4 4 a×b5* 3 ♕d4 ♕×e4 4 ♕×e4 ♘×e4

2…♘d4 3 ♕×d4

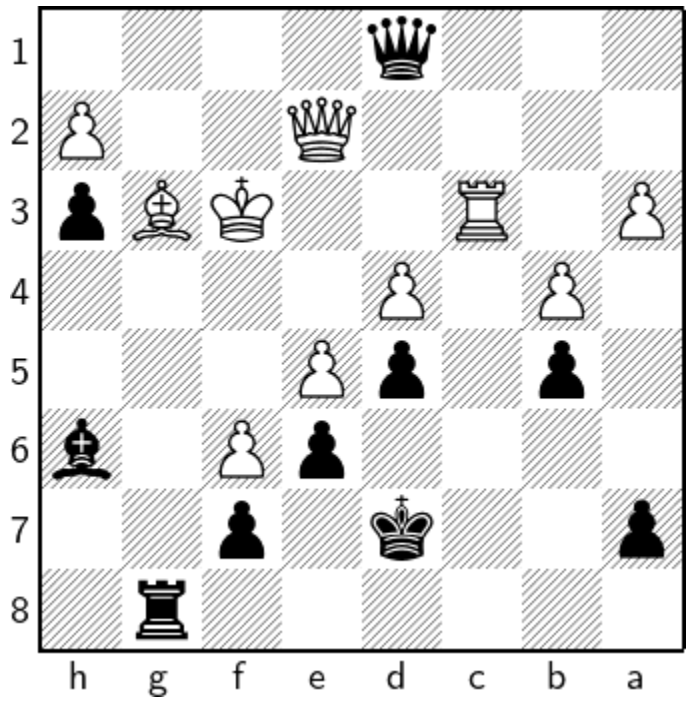
3 ♕c3 ♖×e4 4 ♖×e4 ♕×e4 5 b3

1.92 ?

1.92.1 ?



1…♖×g3+ 2 h×g3 ♕×e2+ 3 ♔×e2 h2



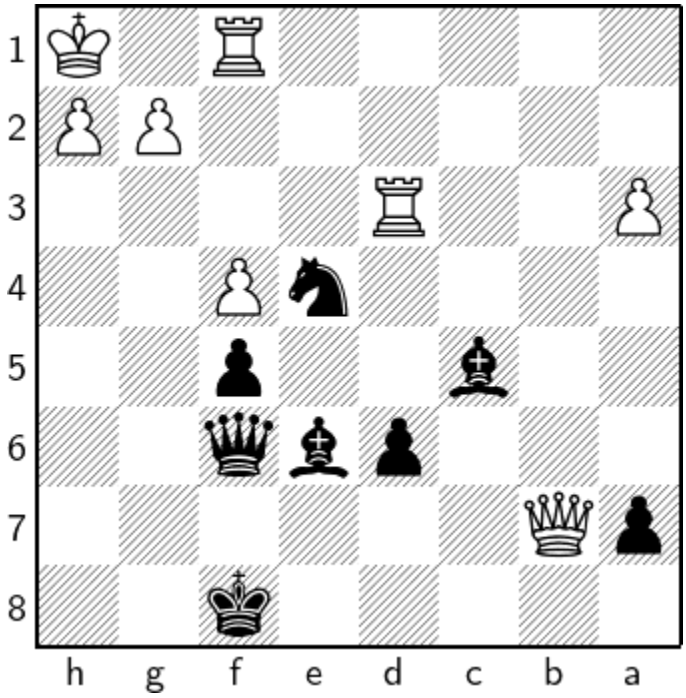
1…♖×g3+ 2 h×g3

a) 2 ♔×g3 ♕g1+ (*2…♕×e2*)

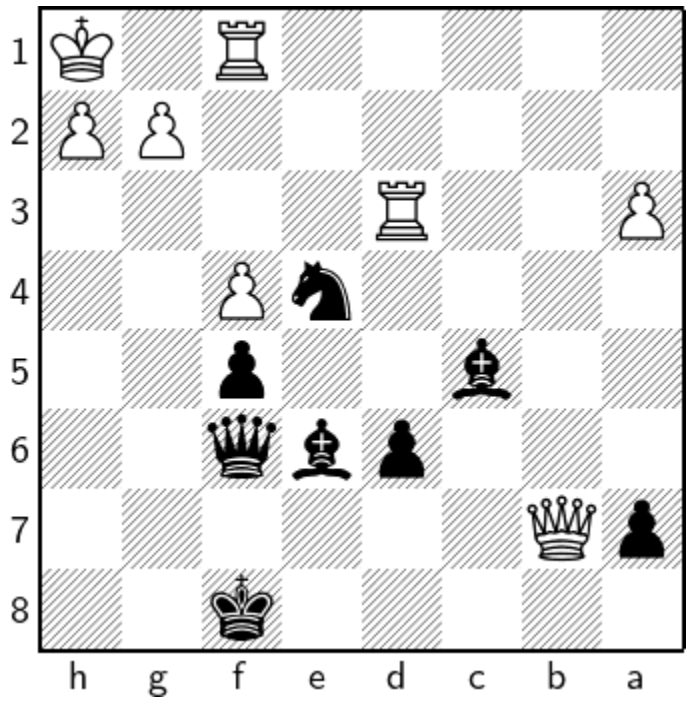
b) 2 h×g3 ♕×e2+ 3 ♔×e2 h2

1.93 ?

1.93.1 ?



1…♘f2+ 2 ♔g1 ♘×d3+ 3 ♔h1 ♘f2+ 4 ♔g1 ♘e4+ 5 ♔h1 ♘g3+ 6 h×g3 ♕h6#

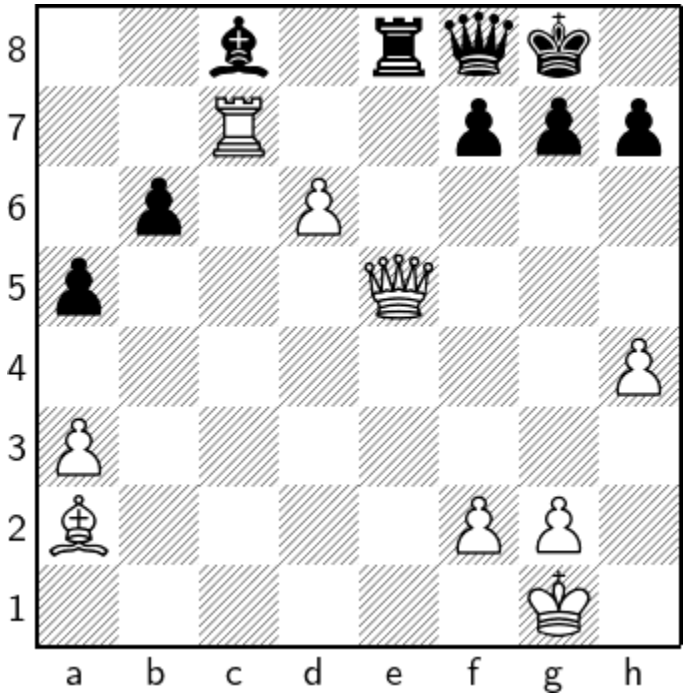


1…♘f2+ 2 ♔g1 ♘×d3+ 3 ♔h1 ♘f2+ 4 ♔g1 ♘e4+ 5 ♔h1 ♘g3+ 6 h×g3

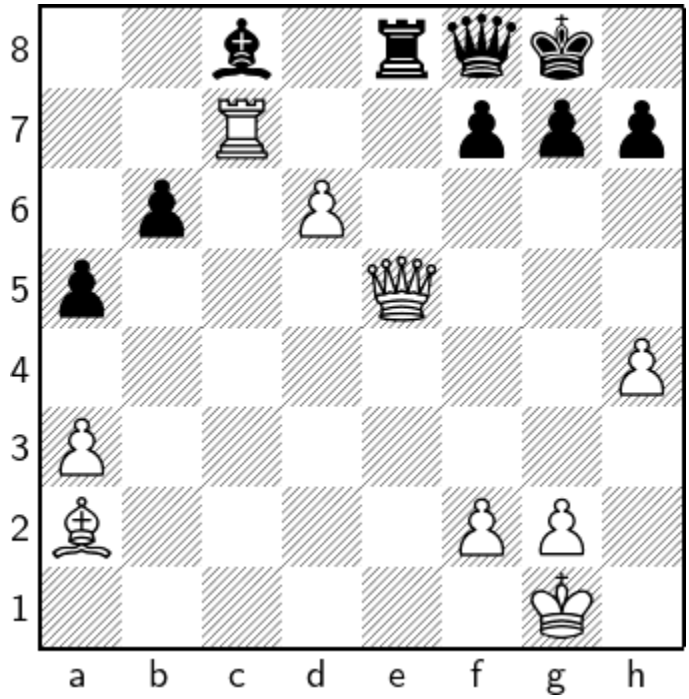
6 h×g3 ♕h6#

1.94 ?

1.94.1 ?



1 ♕×e8 ♕×e8 2 ♗×f7+ ♕×f7 3 ♖×c8+ ♕f8 4 d7



1 ♕×e8 ♕×e8

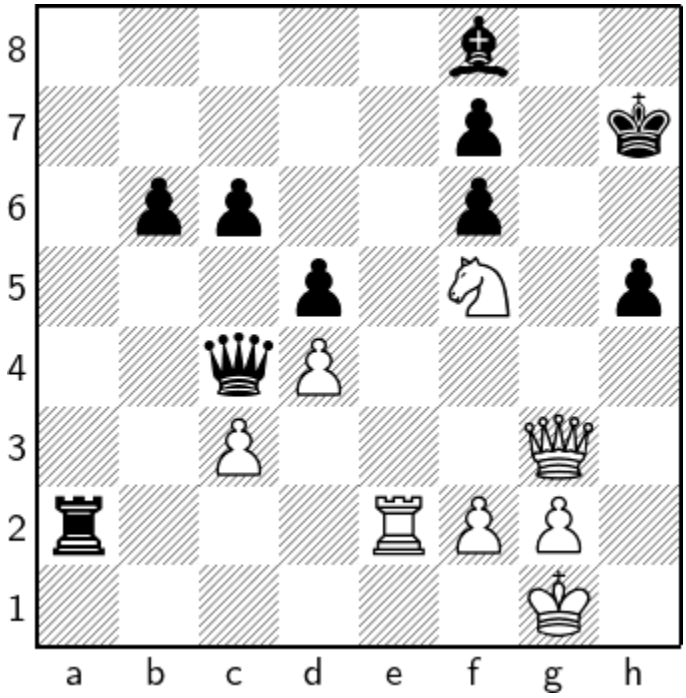
1…♕×e8 2 ♖e7

2 ♗×f7+ ♕×f7 3 ♖×c8+ ♕f8 4 d7

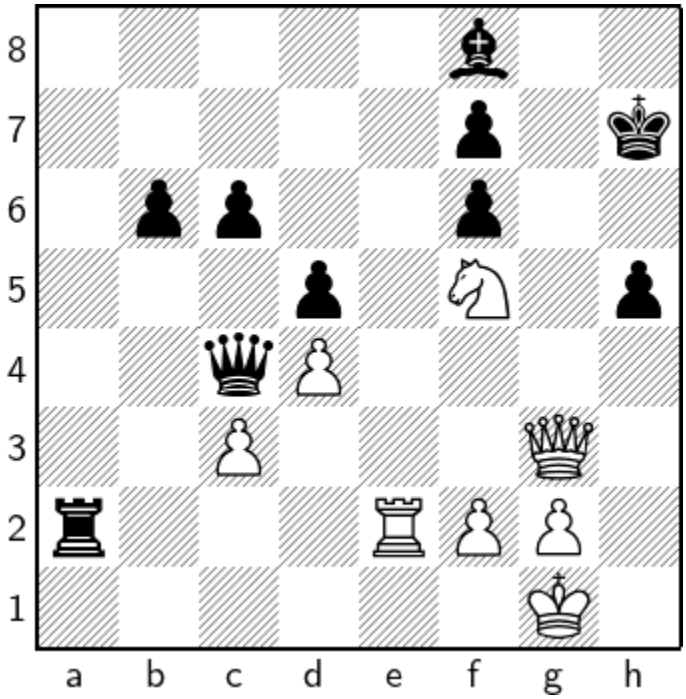
4 ♖×f8+ ♔×f8 5 ♔f1 ♔f7

1.95 ?

1.95.1 ?

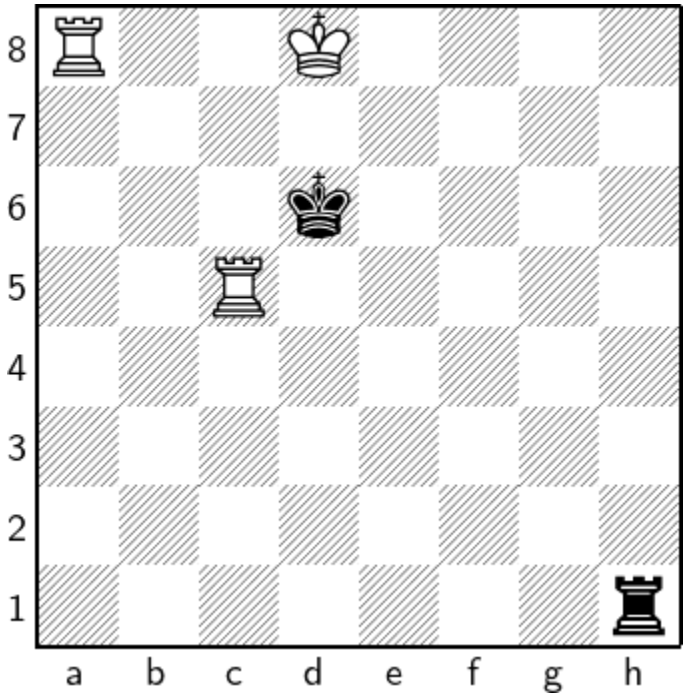


1 ♖e7

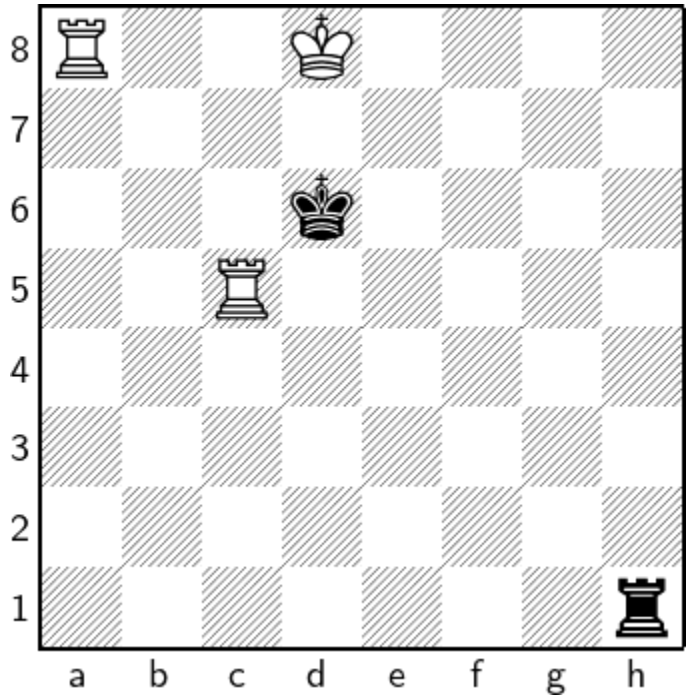


1.96 ?

1.96.1 ?



1 ♖h5 ♖×h5 2 ♖a6+ ♔c5 3 ♖a5+



1 ♖h5 ♖×h5

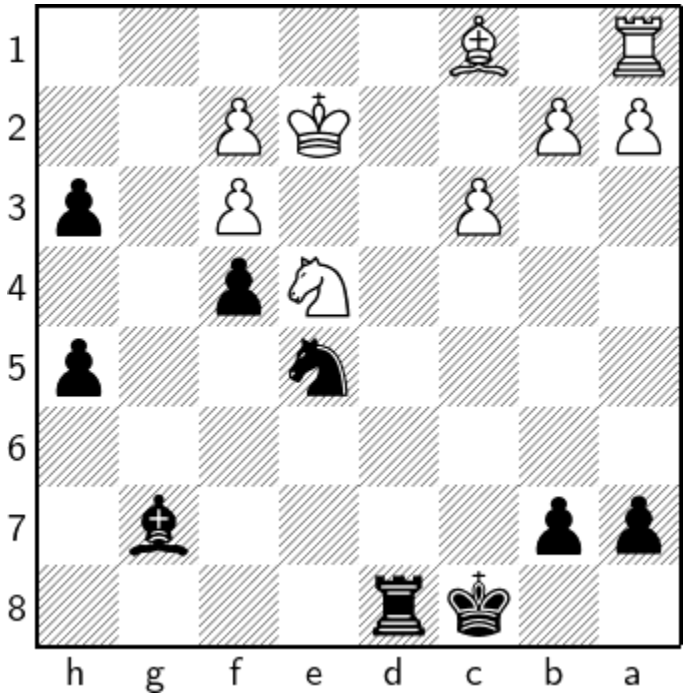
1…♖×h5 2 ♖a6+ ♔c5
a) *2…♔d5 3 ♖a5+*
b) *2…♔e5 3 ♖a5+* 3 ♖a5+

2 ♖a6+ ♔c5

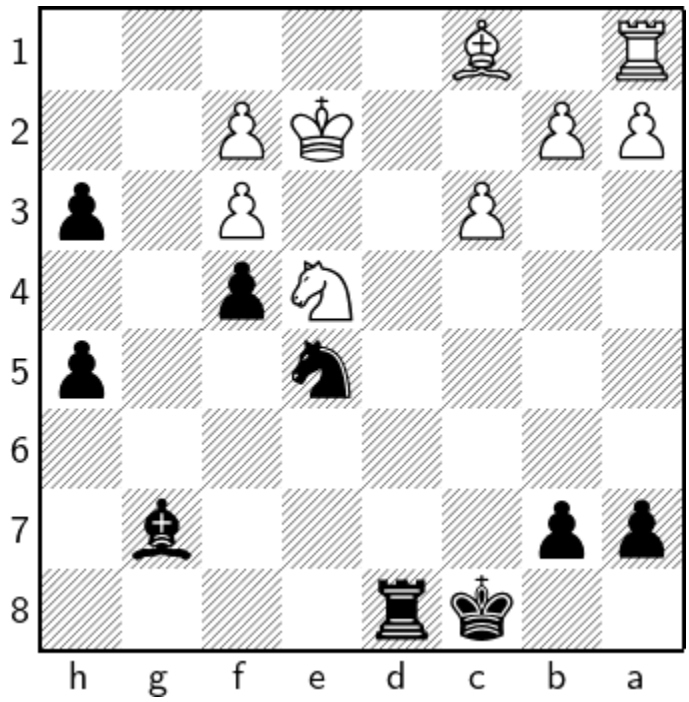
2…♔e5 3 ♖a5+ ♔d4 4 ♖×h5 ♔c3 5 ♔d7 ♔c4 6 ♔d6 ♔d3 7 ♔d5 ♔e3 8 ♖h4 ♔d3 9 ♖h3+ ♔e2 10 ♔d4 ♔f2 11 ♔e4 ♔e2 12 ♖h2+ ♔e1 13 ♔e3 ♔d1 14 ♖e2 ♔c1 15 ♔d3 ♔b1 16 ♔c3 ♔a1 17 ♔b3 ♔b1 18 ♖e1#

1.97 ?

1.97.1 ?



1…♖d1 2 ♔×d1 h2

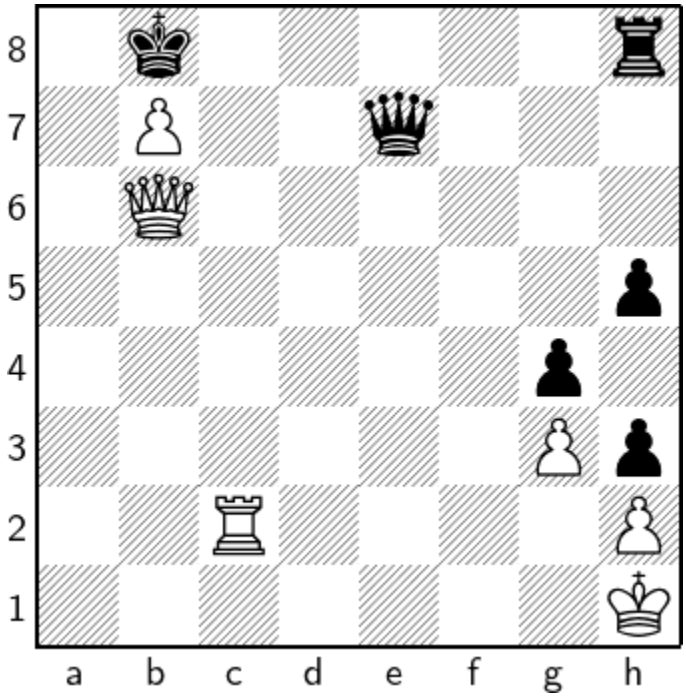


1…♖d1 2 ♔×d1

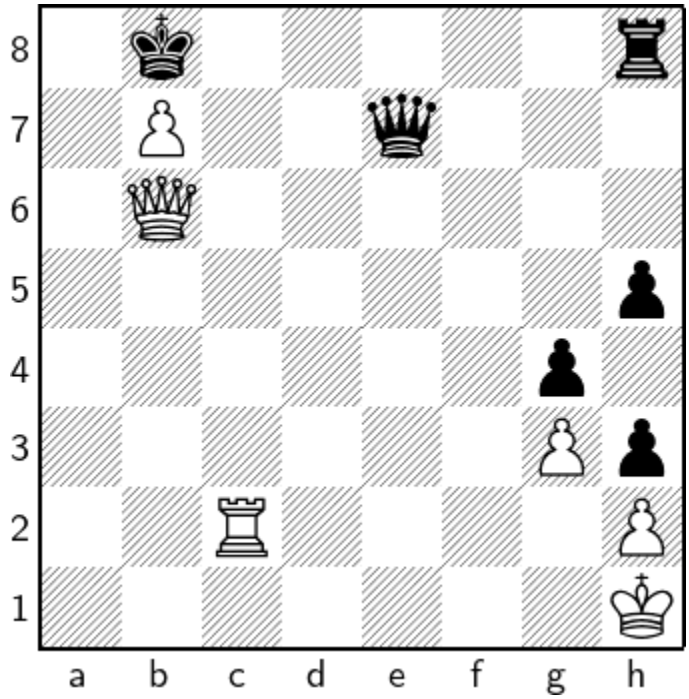
2 ♘d6+ ♔d7 3 ♘f5 ♗f6

1.98 ?

1.98.1 ?

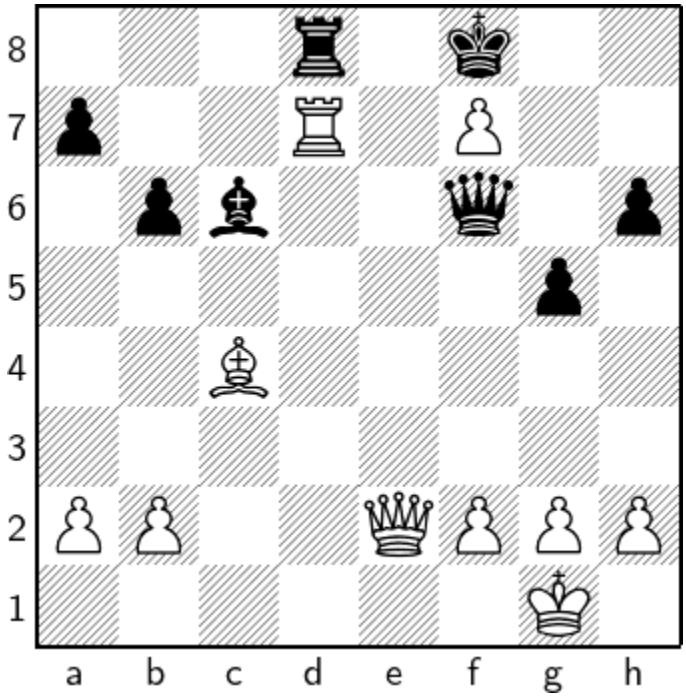


1 ♖c8+ ♖×c8 2 ♕a7+ ♔×a7 3 b×c8♘+

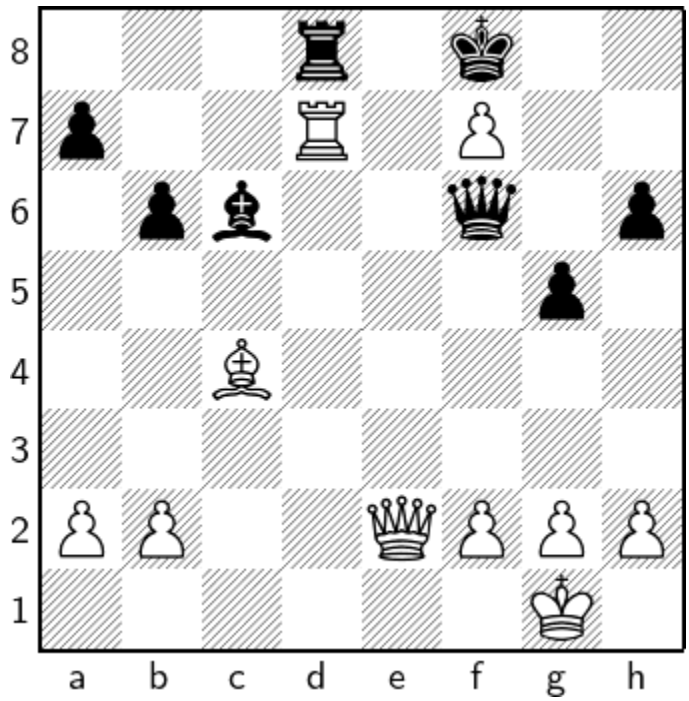


1.99 ?

1.99.1 ?



1 ♕e5 ♕×e5 2 ♖×d8+ ♗e8 3 ♖×e8+ ♕×e8 4 f×e8♕+ ♔×e8



1 ♕e5 ♕×e5

1…♕×e5 2 ♖×d8+

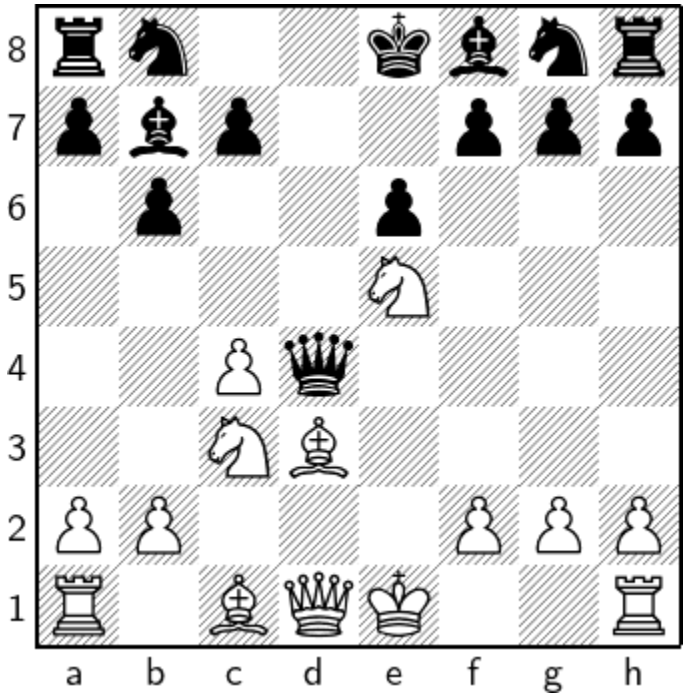
2 ♖×d8+ ♗e8 3 ♖×e8+

a) 3 f×e8♗ ♔e7 4 ♖c8 ♕f5

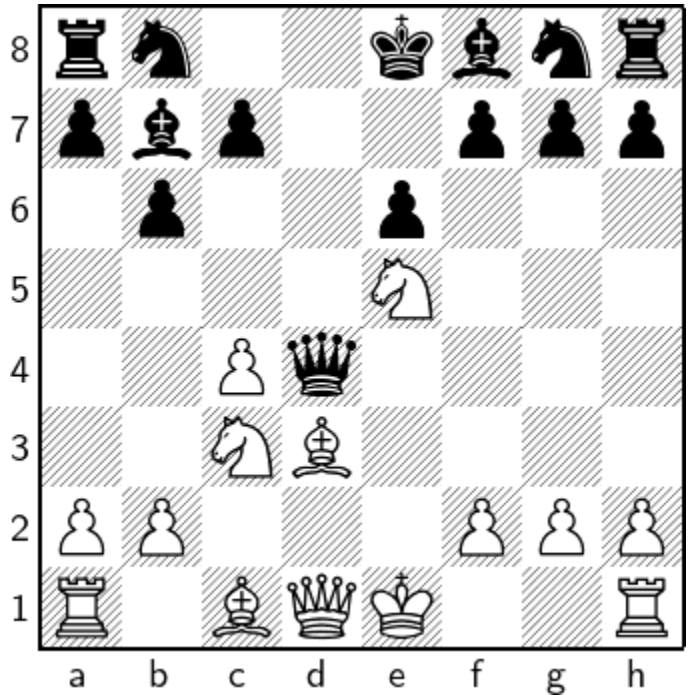
b) 3 f×e8♘ ♔e7 4 ♖c8 ♕f5

1.100 ?

1.100.1 ?



1 ♘×f7 ♔×f7 2 ♗g6+ h×g6 3 ♕×d4



1 ♘×f7 ♔×f7

1…♔×f7 2 ♗g6+ ♔e7
a) *2…♔f6 3 ♕×d4+*
b) *2…♔×g6 3 ♕×d4*
c) *2…h×g6 3 ♕×d4* 3 ♕×d4 (*3 ♗g5+*)

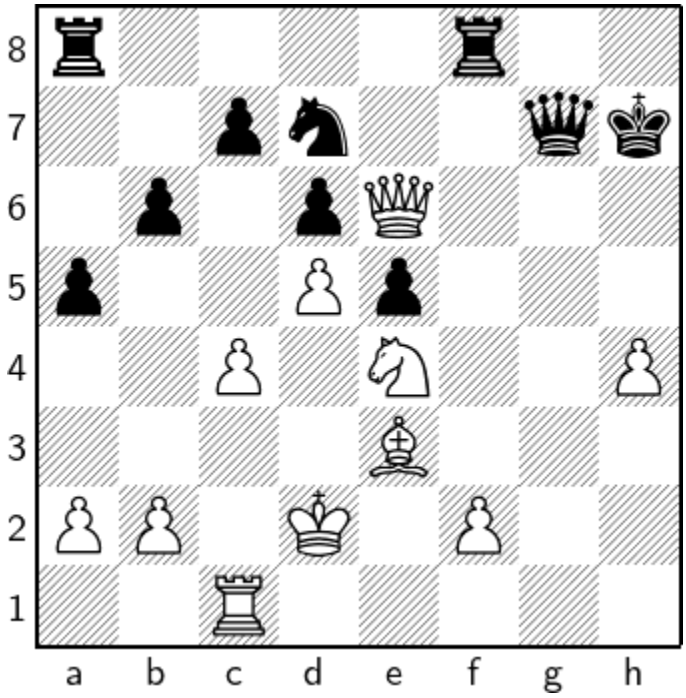
2 ♗g6+ h×g6

a) 2…♔×g6 3 ♕×d4

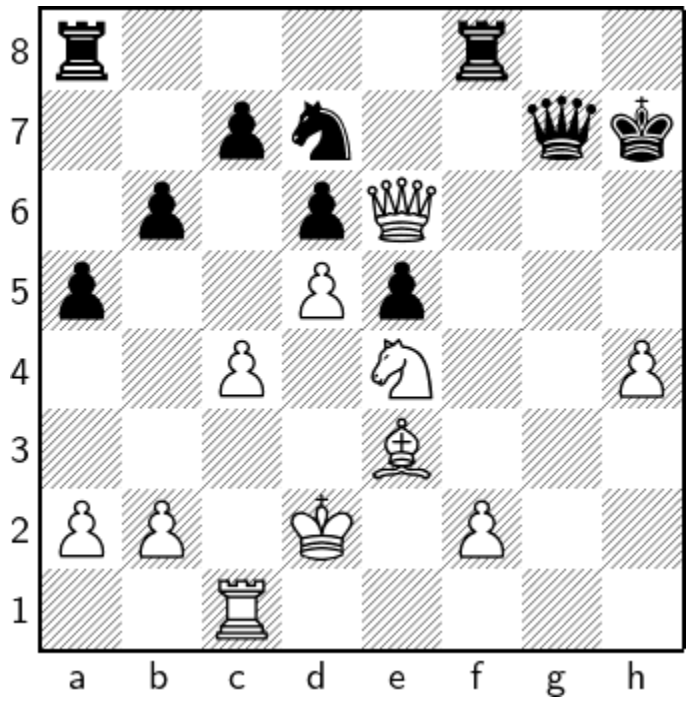
b) 2…h×g6 3 ♕×d4

1.101 ?

1.101.1 ?



1 ♖g1 ♕×g1 2 ♘g5+ ♕×g5 3 h×g5

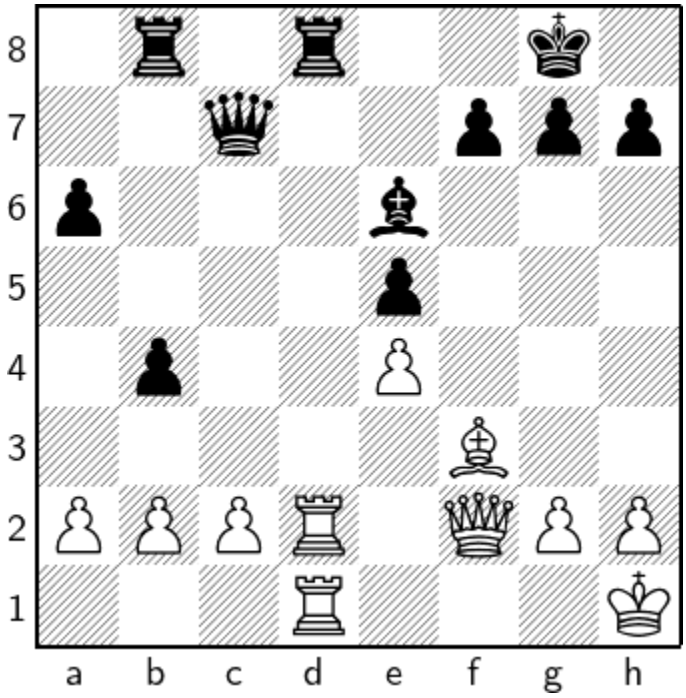


1 ♖g1 ♕×g1

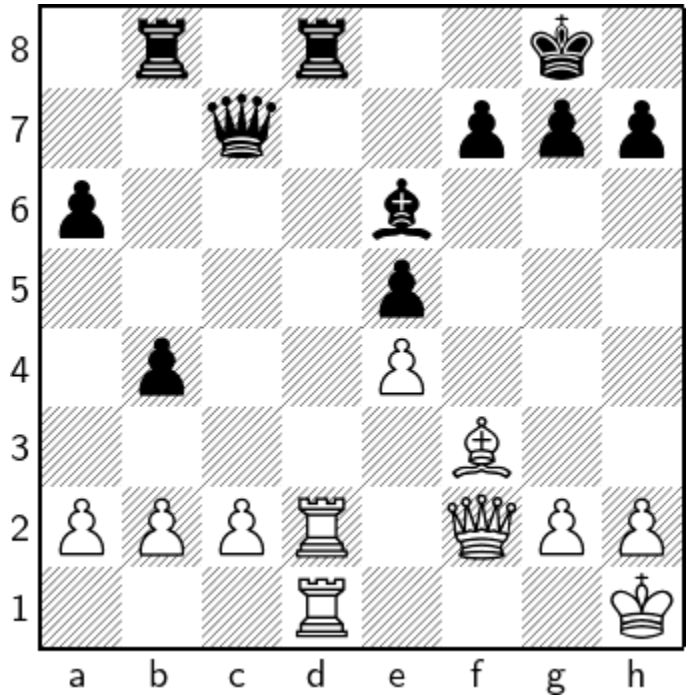
1…♕×g1 2 ♕e7+

1.102 ?

1.102.1 ?



1 ♕a7 ♕a5 2 ♕×a6 ♕c7 3 ♕a7



1 ♕a7 ♕a5

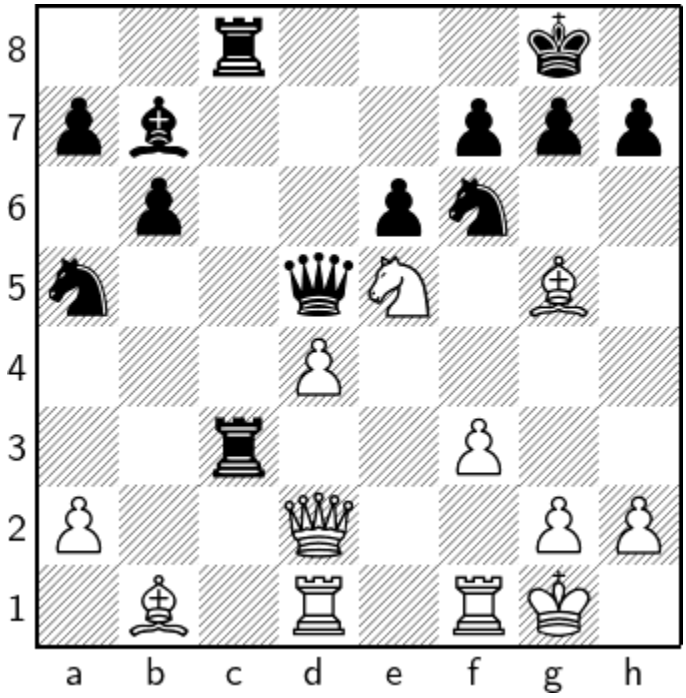
1…♕×a7 2 ♖×d8+

2 ♕×a6 ♕c7

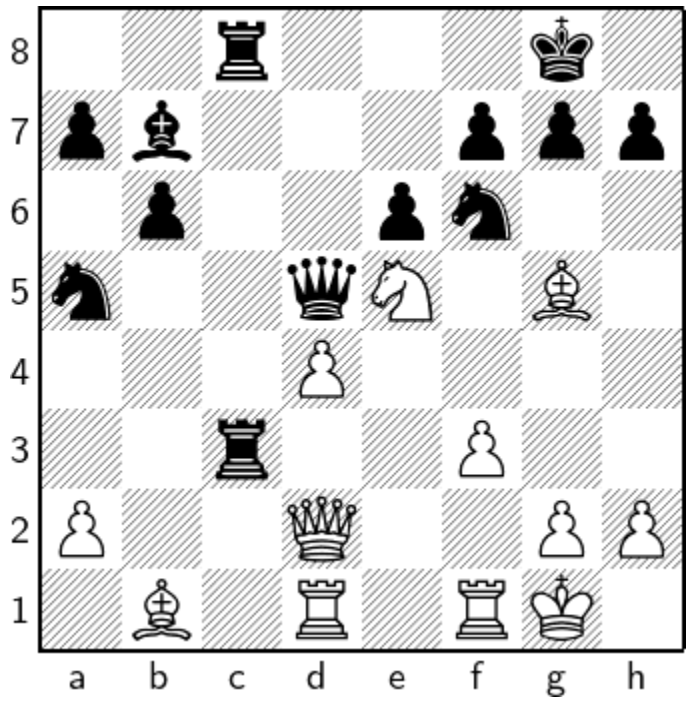
2…♕×a6 3 ♖×d8+

1.103 ?

1.103.1 ?



1 ♗×f6 g×f6 2 ♕h6 f5 3 ♘g4



1 ♗×f6 g×f6

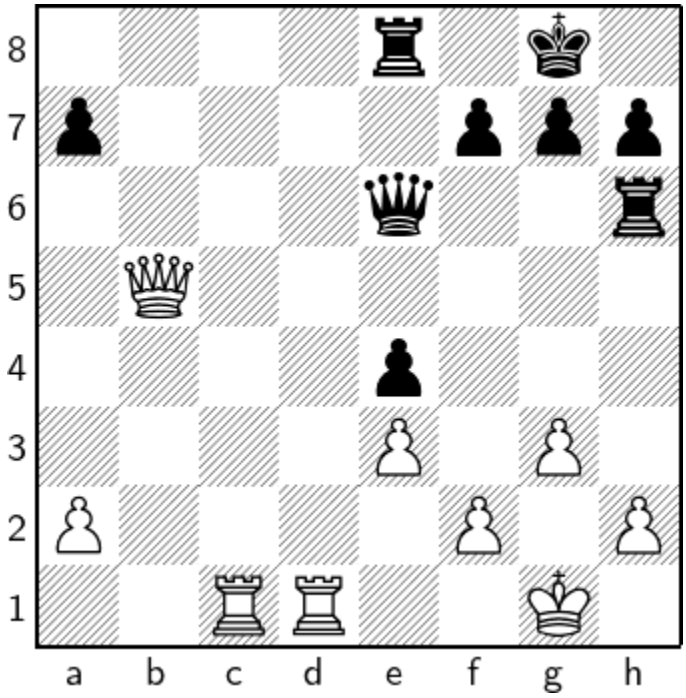
1…♔f8 2 ♗×g7+ ♔×g7 3 ♕g5+ ♔f8 4 ♕h6+ ♔e7 5 ♕×h7

2 ♕h6 f5

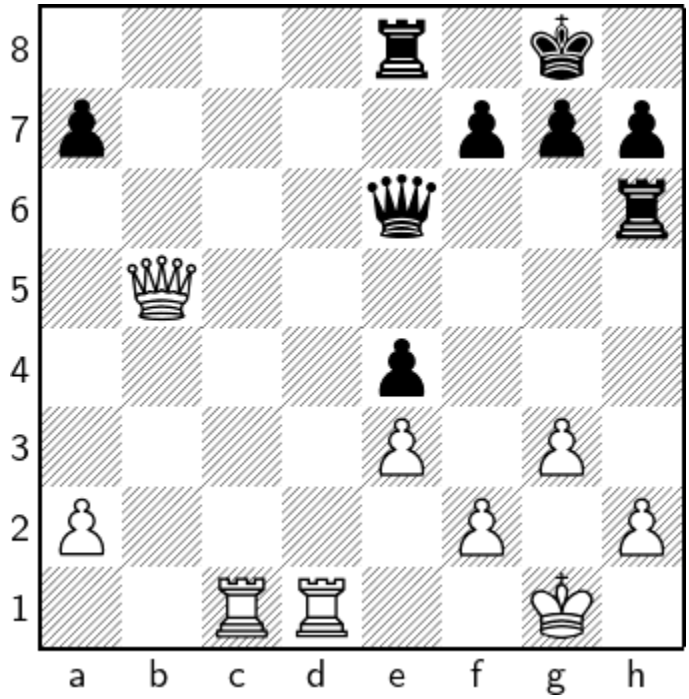
2…♖c2 3 ♗×c2 ♖×c2

1.104 ?

1.104.1 ?



1 ♖d6 ♕e7 2 ♖c7 ♕f8 3 ♖×h6 g×h6 4 ♖×a7



1 ♖d6 ♕e7

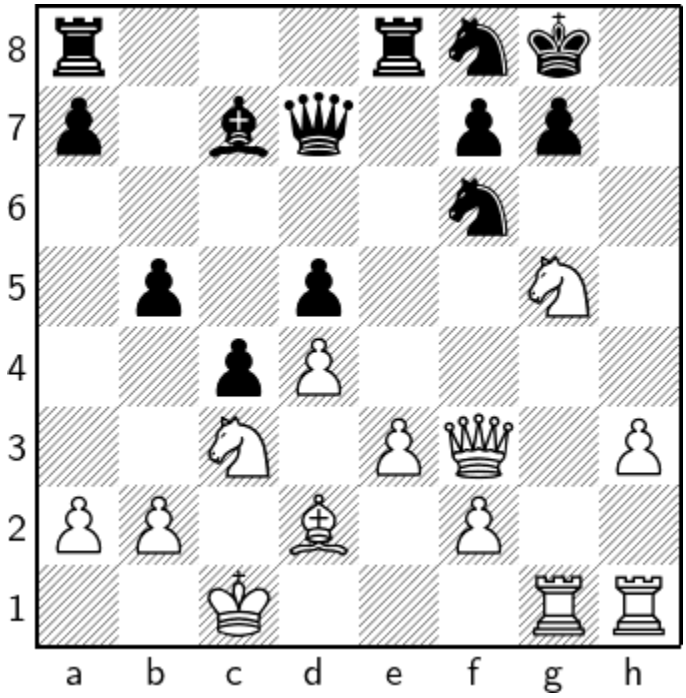
1…♕×d6 2 ♕×e8+

2 ♖c7 ♕f8

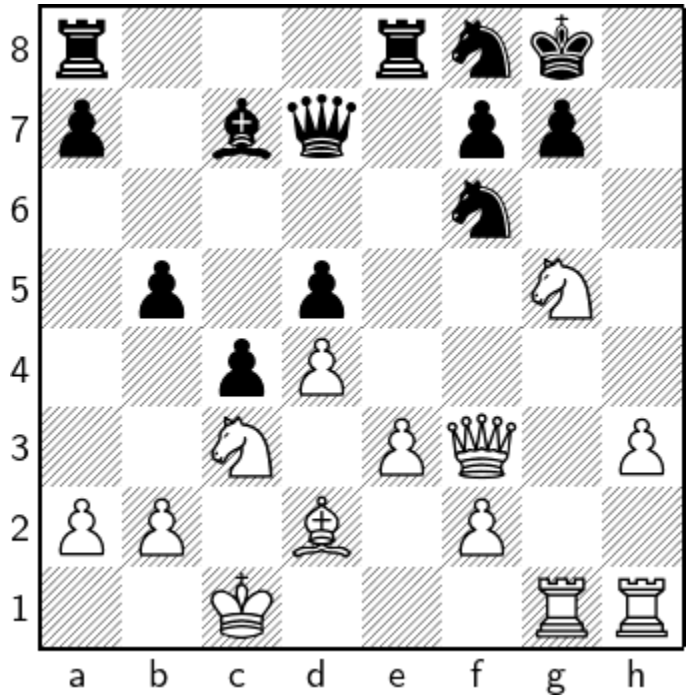
2…♕×c7 3 ♕×e8#

1.105 ?

1.105.1 ?



1 ♕×f6 g×f6 2 ♘ge4+ ♔h8 3 ♘×f6

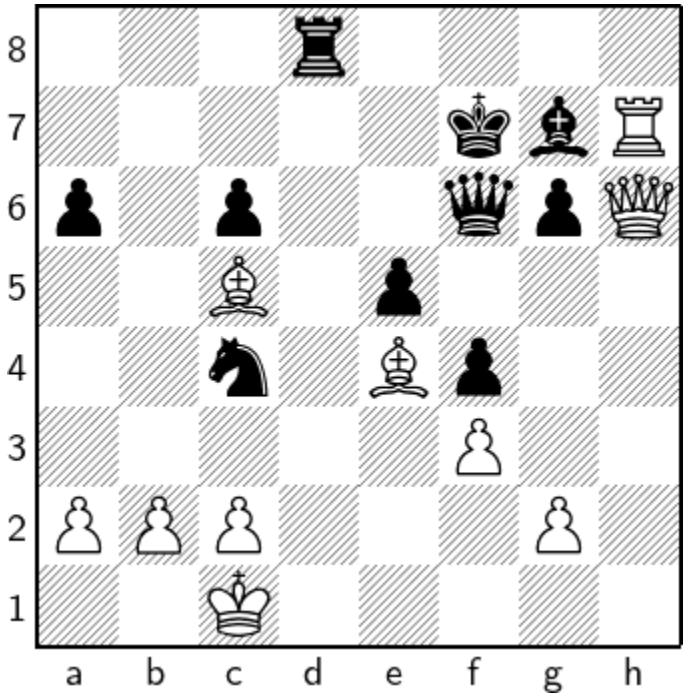


1 ♕×f6 g×f6

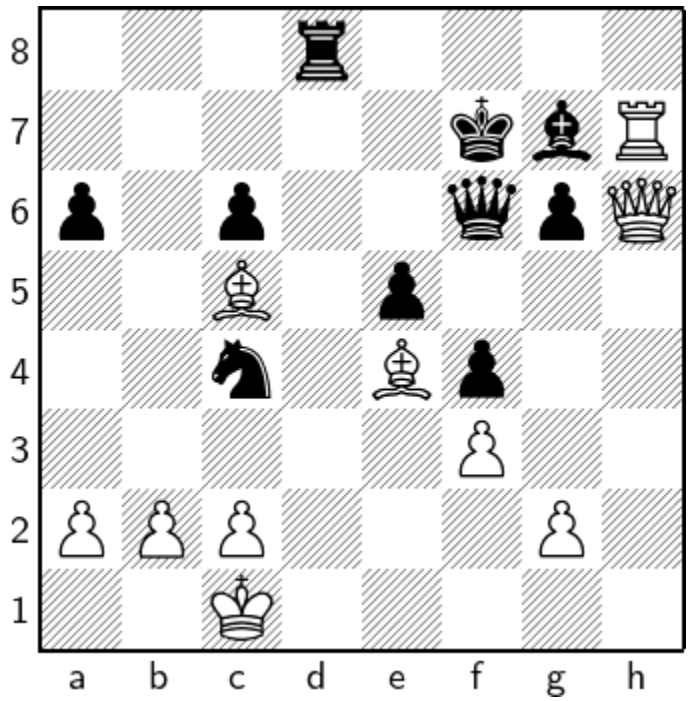
1…♖ad8

1.106 ?

1.106.1 ?



1 ♗e7 ♕×e7 2 ♕×g7+ ♔e6 3 ♕×e7#



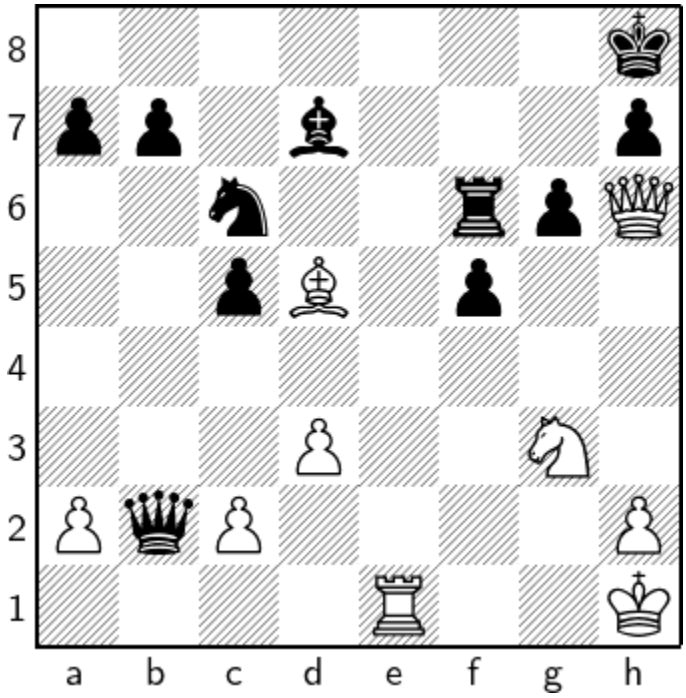
1 ♗e7 ♕×e7

a) 1…♕×e7 2 ♕×g7+

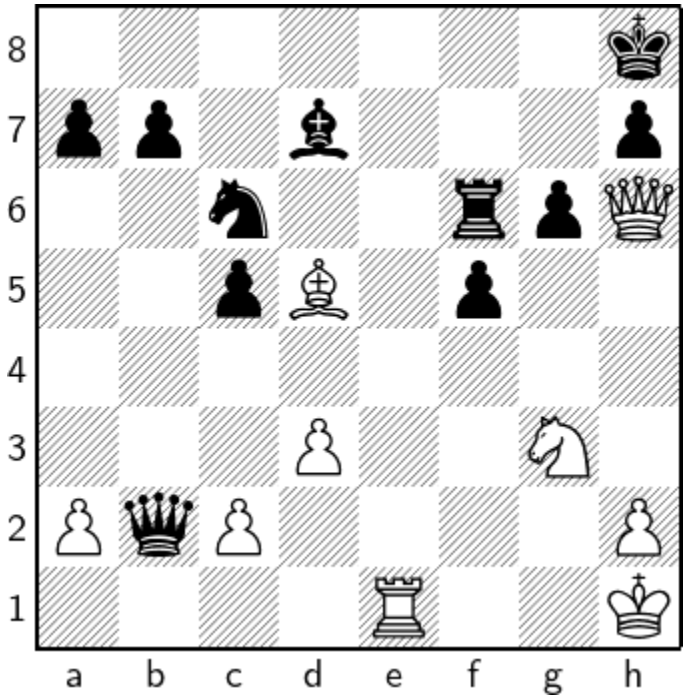
b) 1…♔×e7 2 ♕×g7+

1.107 ?

1.107.1 ?



1 ♘h5 g×h5 2 ♖g1

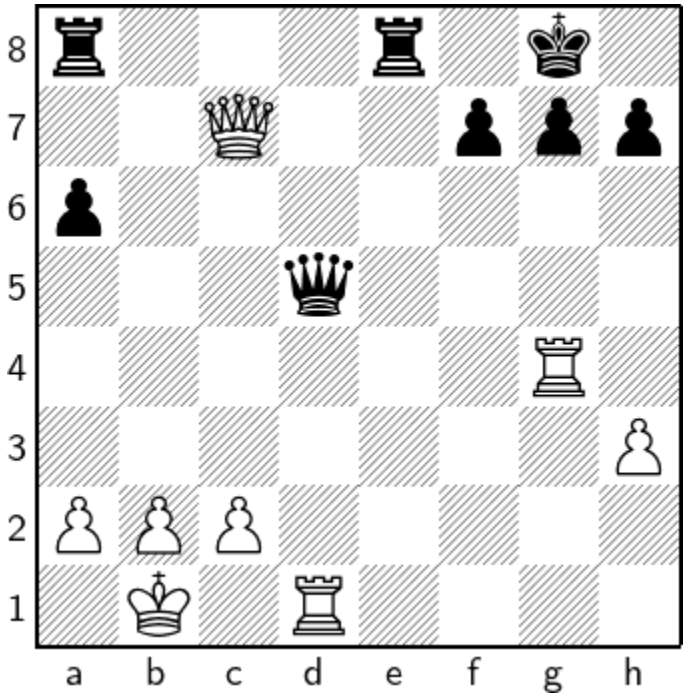


1 ♘h5 g×h5

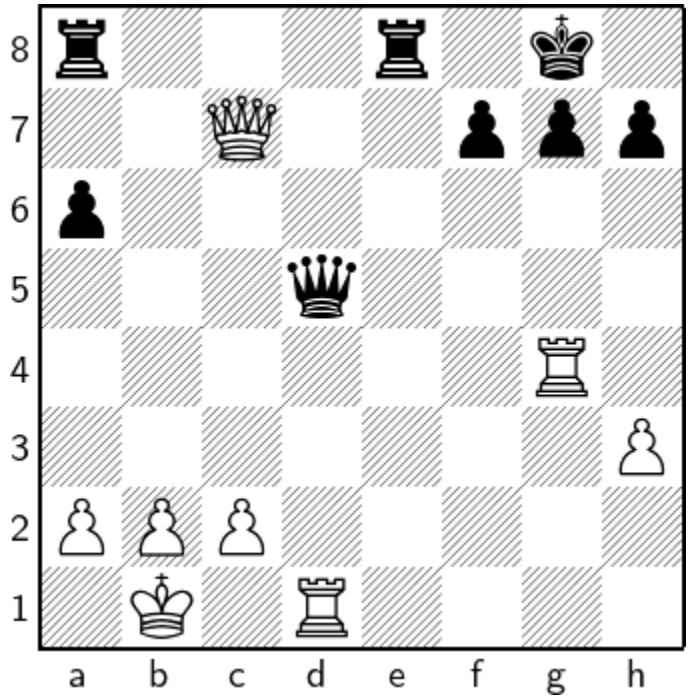
1…g×h5 2 ♖g1

1.108 ?

1.108.1 ?



1 ♖×g7+ ♔×g7 2 ♕g3+



1 ♖×**g7**+

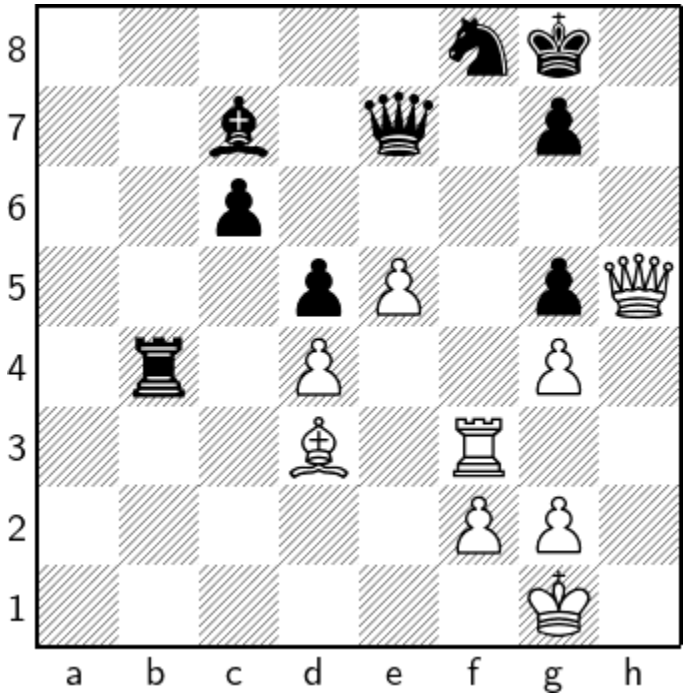
1 ♖×d5 ♖e1+ 2 ♖d1 ♖×d1#

1…♔×**g7 2** ♕**g3**+

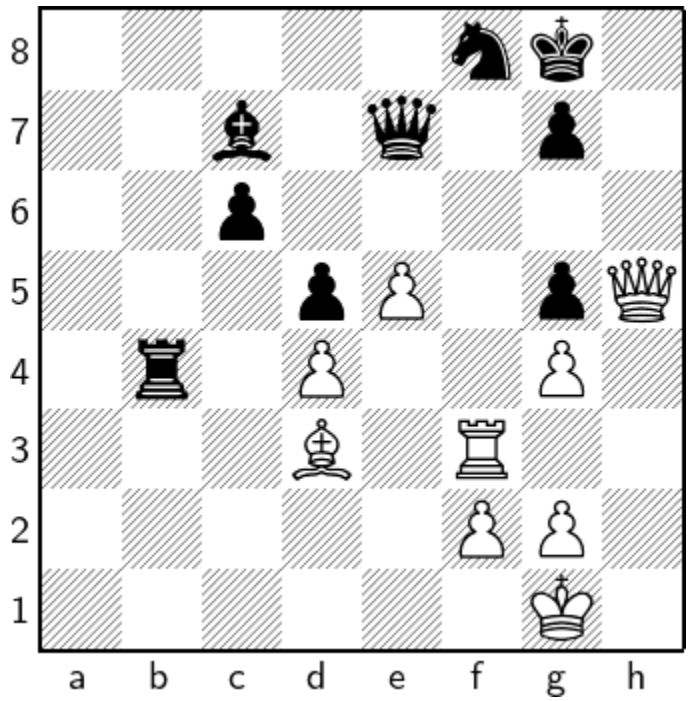
2 ♖×d5 ♖e1+ 3 ♖d1 ♖×d1#

1.109 ?

1.109.1 ?



1 ♖×f8+ ♔×f8 2 ♕h8+ ♔f7 3 ♗g6+ ♔×g6 4 ♕h5#



1 ♖×f8+ ♔×f8

a) 1…♕×f8 2 ♗h7+

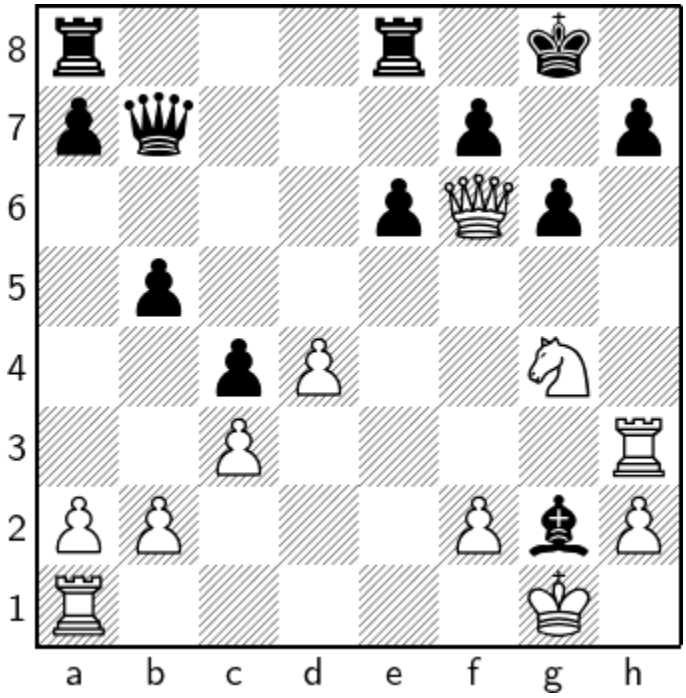
b) 1…♔×f8 2 ♕h8+

2 ♕h8+ ♔f7 3 ♗g6+ ♔×g6

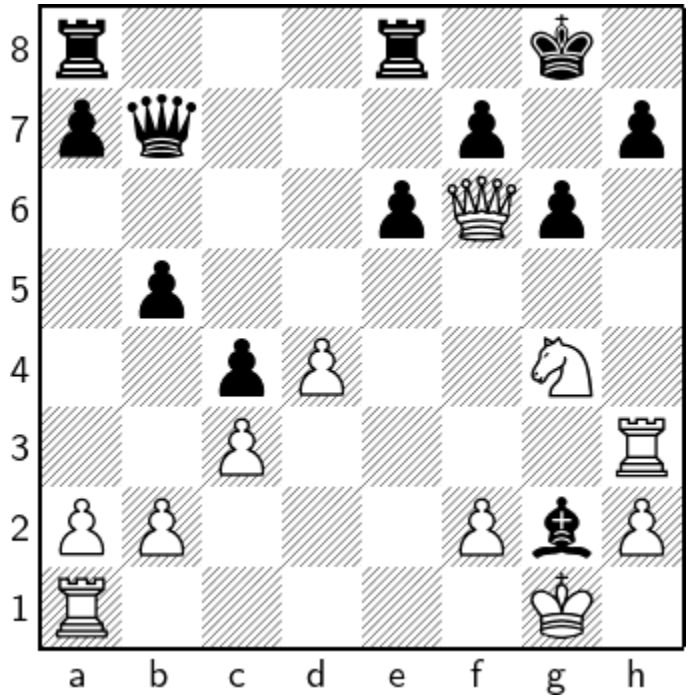
3…♔×g6 4 ♕h5#

1.110 ?

1.110.1 ?



1 ♘h6+ ♔f8 2 ♘f5 e×f5 3 ♖×h7



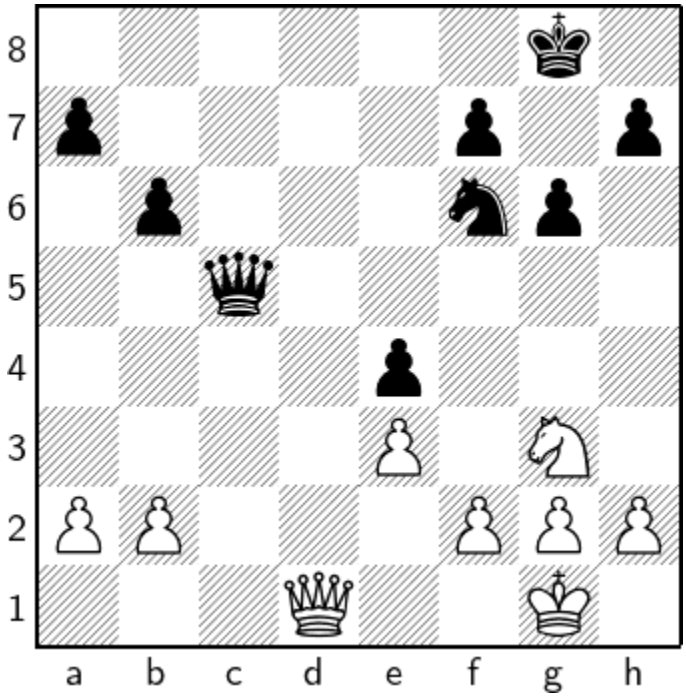
1 ♘h6+ ♔f8 2 ♘f5 e×f5

a) 2…e×f5 3 ♖×h7

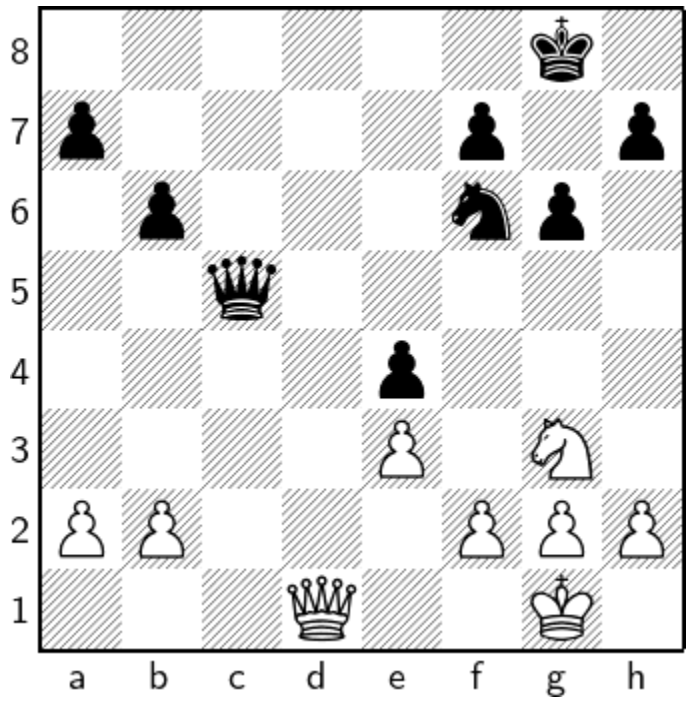
b) 2…g×f5 3 ♖×h7

1.111 ?

1.111.1 ?

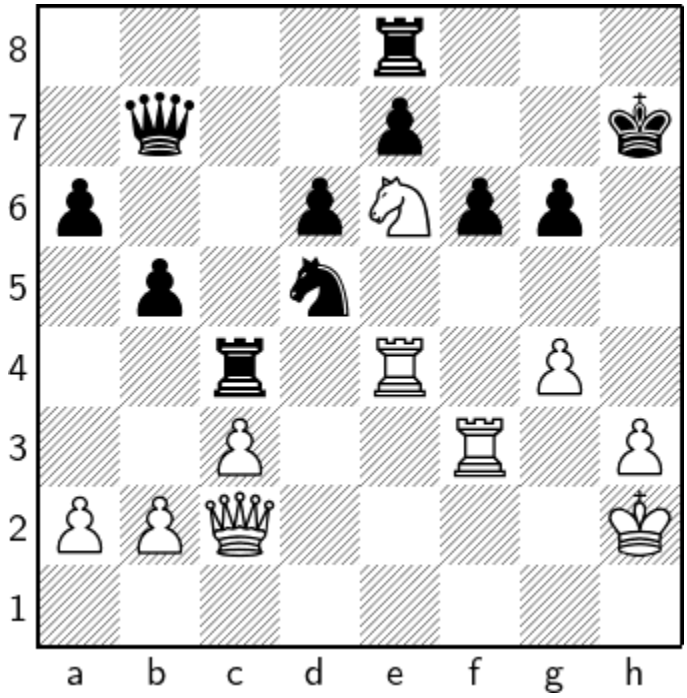


1 ♕d8+ ♔g7 2 ♕×f6+ ♔×f6 3 ♘×e4+ ♔e5 4 ♘×c5

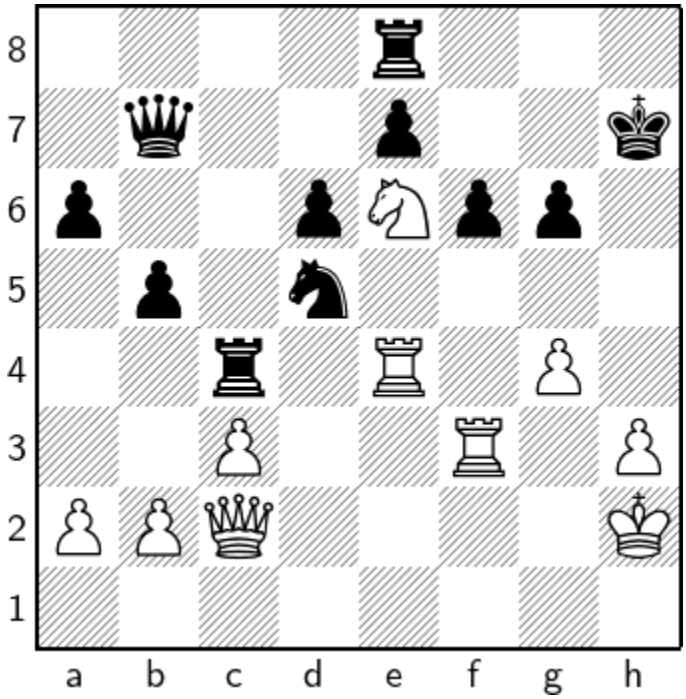


1.112 ?

1.112.1 ?

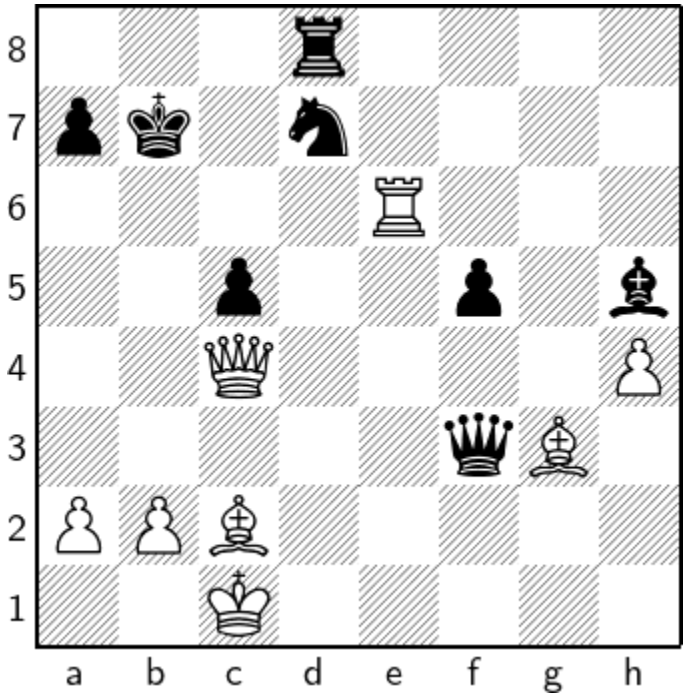


1 ♖×c4 b×c4 2 ♖f5

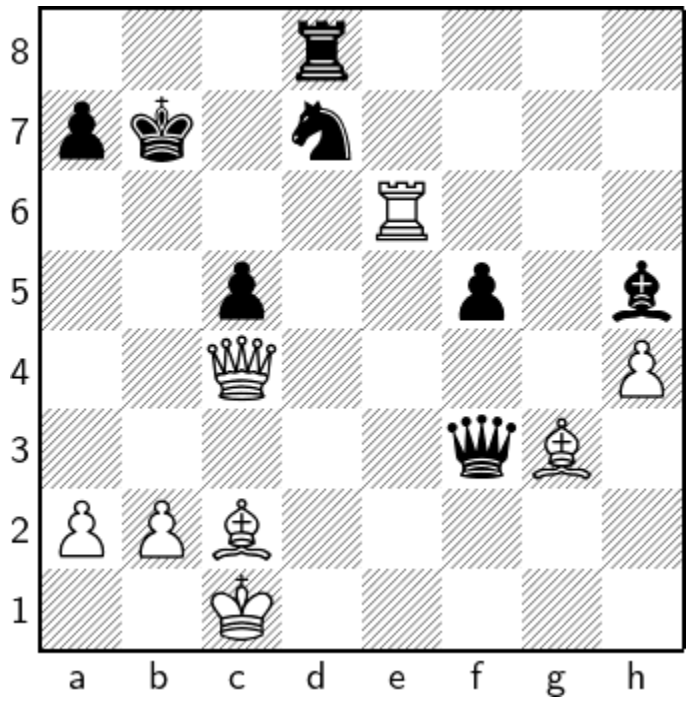


1.113 ?

1.113.1 ?



1 ♗e4+ f×e4 2 ♕d5+ ♔c8 3 ♕c6#

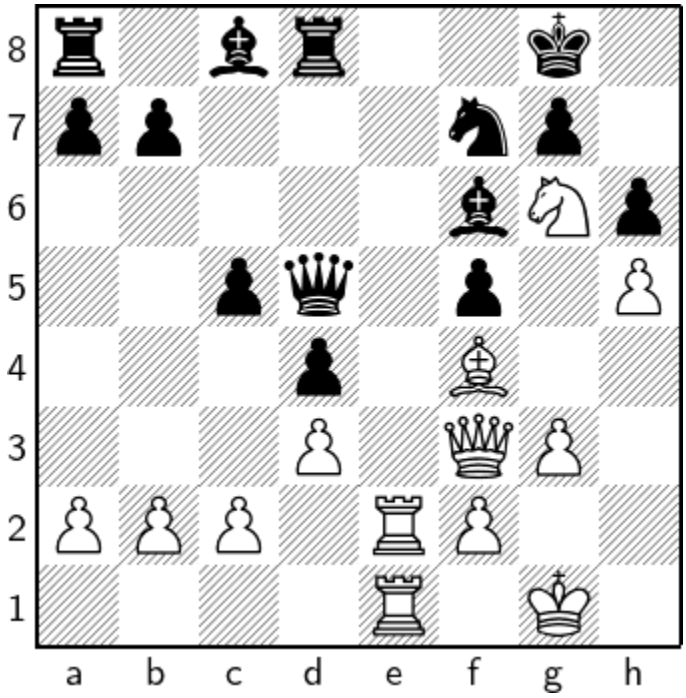


1 ♗e4+ f×e4

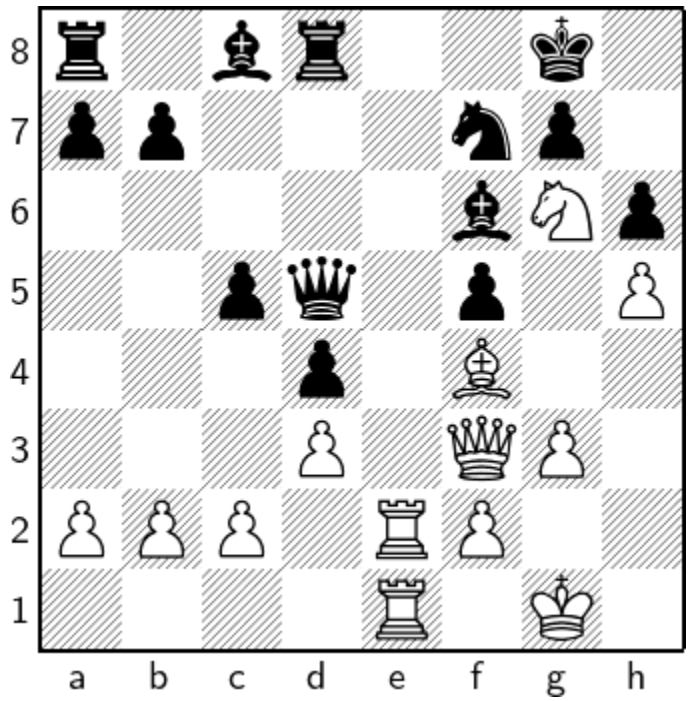
1…♕×e4 2 ♕a6+ ♔a8 3 ♖×e4 ♘b8 4 ♗×b8 ♖d1+ 5 ♔c2 ♖d7 6 ♗d6 ♖b7 7 ♕c6 ♗d1+ 8 ♔×d1 f×e4 9 ♕c8+ ♖b8 10 ♕×b8#

1.114 ?

1.114.1 ?

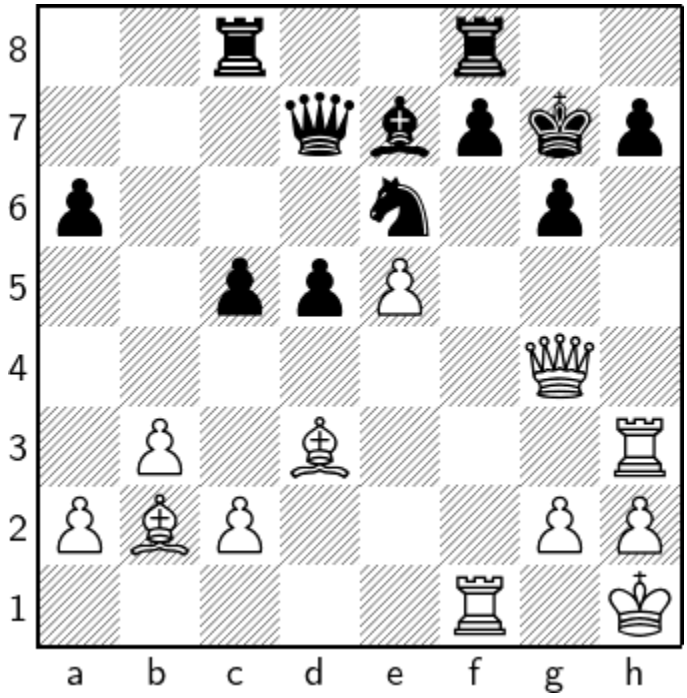


1 ♖e8+ ♔h7 2 ♘f8+ ♔g8 3 ♘d7+

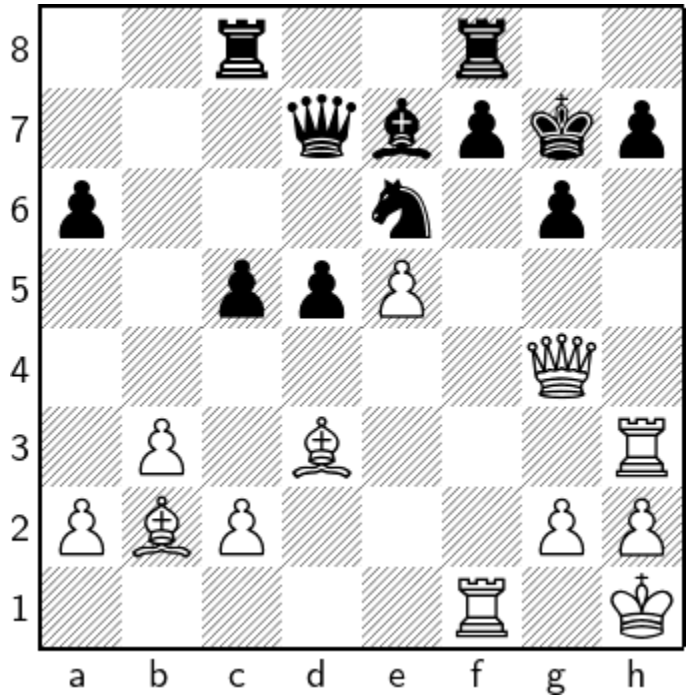


1.115 ?

1.115.1 ?

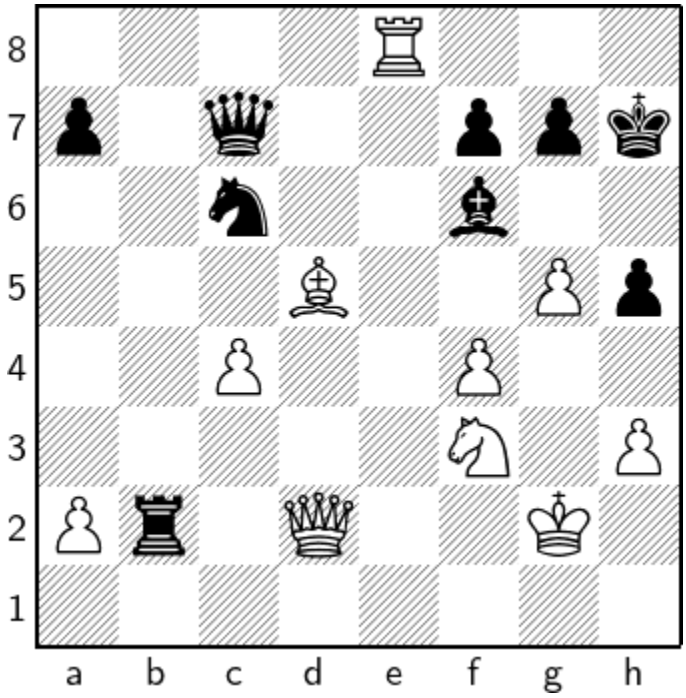


1 ♖×h7+ ♔×h7 2 ♖×f7+ ♖×f7 3 ♕×g6+ ♔h8 4 ♕×f7

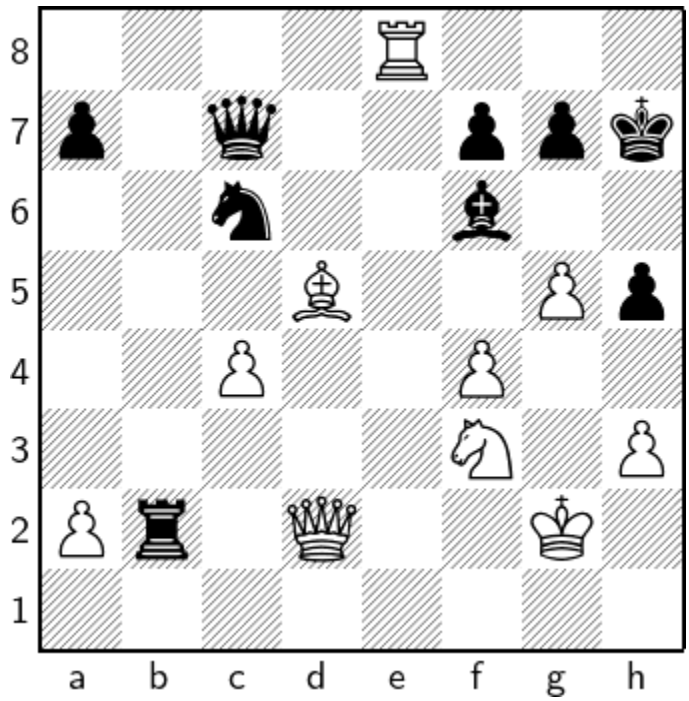


1.116 ?

1.116.1 ?



1 g6+ f×g6 2 ♕×b2 ♕×f4 3 ♕d2 ♕c7 4 ♘g5+



1 g6+ f×g6

a) 1…f×g6 2 ♕×b2

b) 1…♔×g6 2 ♗e4+

2 ♕×b2 ♕×f4

2…♗×b2 3 ♘g5+

3 ♕d2

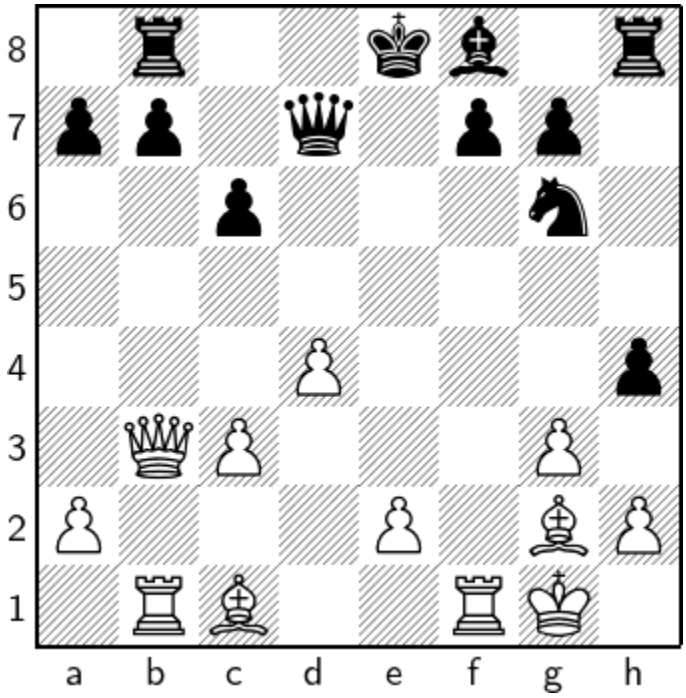
3 ♕e2 ♘e5 4 ♖×e5 h4 5 ♕e1 g5 6 ♖e8 g4 7 ♖h8+ ♔×h8 8 ♕e8+ ♔h7 9 ♗e4+ ♕×e4 10 ♕×e4+ ♔g8 11 ♕×g4 ♔f7 12 c5 ♗c3 13 c6 ♗a5 14 ♘d4 a6 15 ♕e6+ ♔f8 16 ♘f5 ♗b4 17 c7 ♗a5 18 c8♕+ ♗d8 19 ♕×d8#

3…♕c7

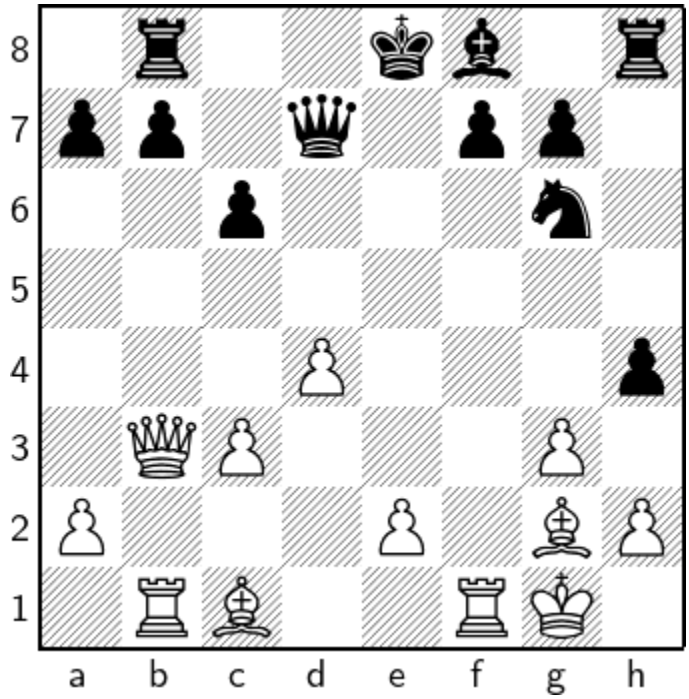
3…♕×d2+ 4 ♘×d2 ♘e7

1.117 ?

1.117.1 ?



1 ♖×f7 ♕×f7 2 ♗×c6+ b×c6 3 ♕×b8+

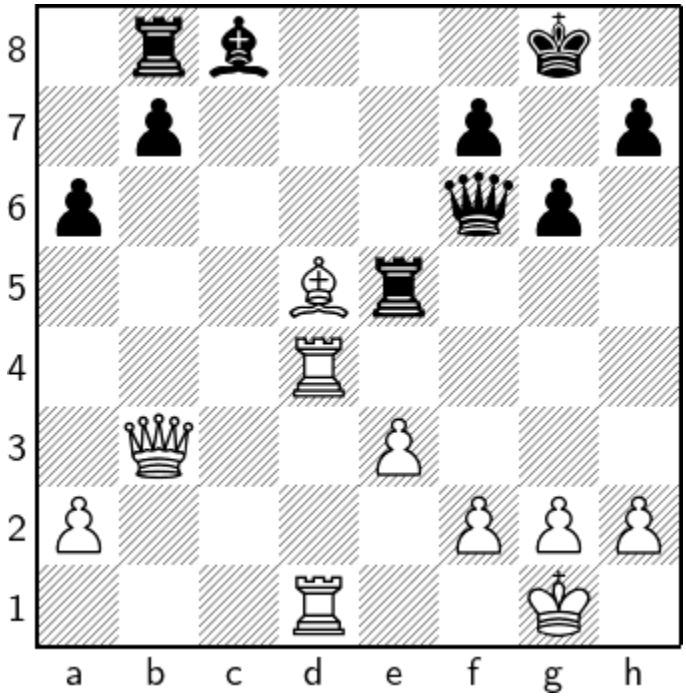


1 ♖×f7 ♕×f7

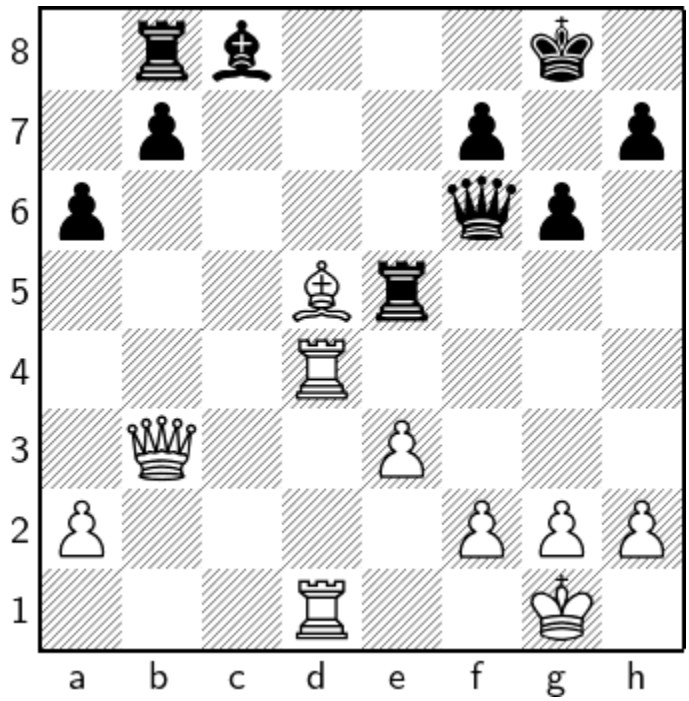
1…♕×f7 2 ♗×c6+ b×c6
a) *2…♔d8 3 ♕×f7*
b) *2…♔e7 3 ♗a3+*
c) *2…♕d7 3 ♕e6+* (3 ♕d5) 3 ♕a4 (*3 ♕×b8+*)

1.118 ?

1.118.1 ?



1 ♗×f7+ ♕×f7 2 ♖d8+ ♔g7 3 ♕c3 ♕f6 4 ♕c7+



1 ♗×f7+ ♕×f7

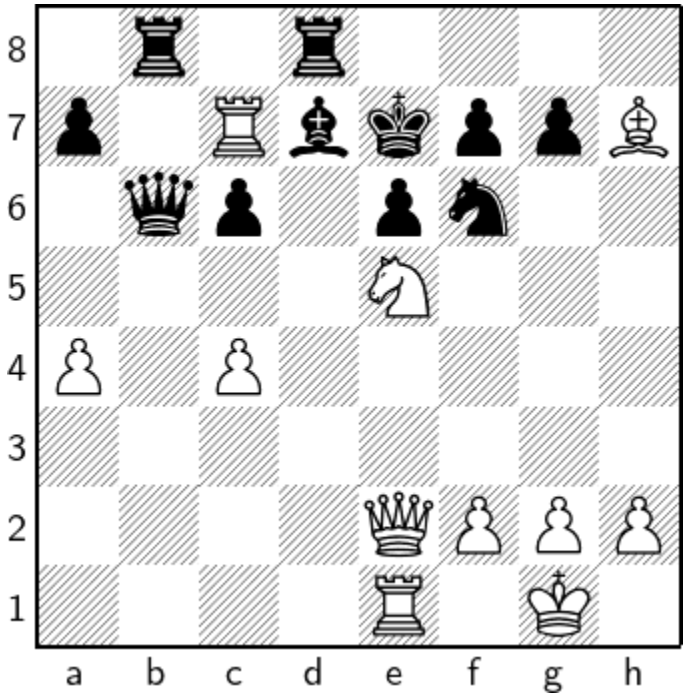
1…♔g7 2 ♗c4

2 ♖d8+ ♔g7 3 ♕c3 ♕f6 4 ♕c7+

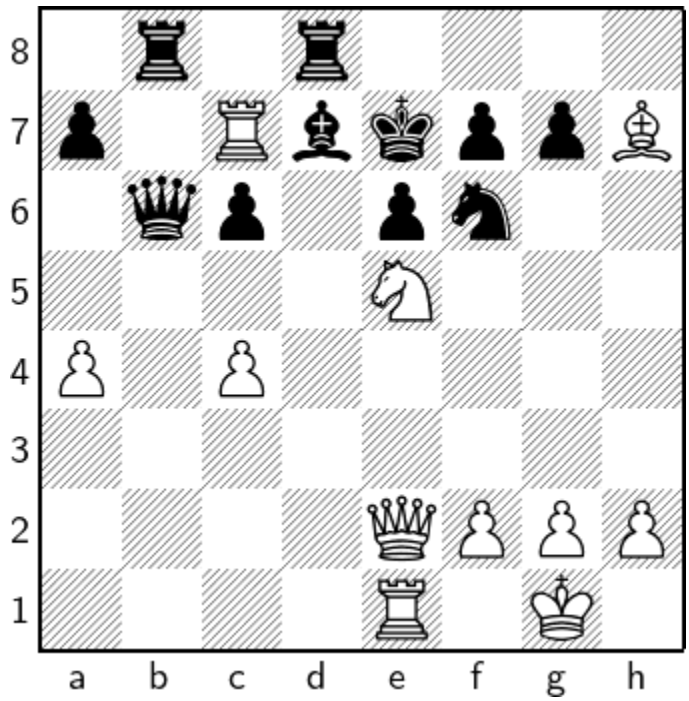
4 ♖×c8 ♖×c8 5 ♕×c8 ♖e7

1.119 ?

1.119.1 ?



1 ♘g6+ ♔e8 2 ♕×e6+ f×e6 3 ♖×e6+ ♗×e6 4 ♖e7#



1 ♘g6+ ♔e8

1…f×g6 2 ♕×e6+

2 ♕×e6+ f×e6

a) 2…♗×e6 3 ♖e7#

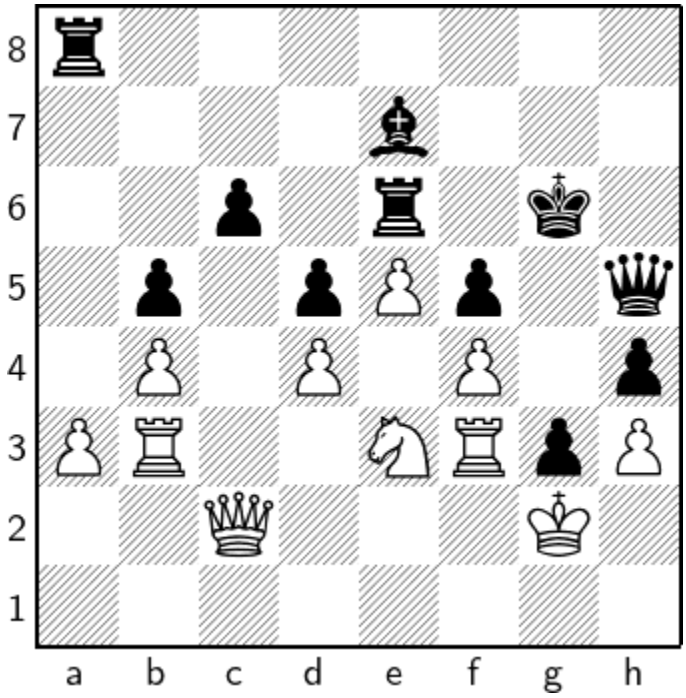
b) 2…f×e6 3 ♖×e6+

3 ♖×e6+ ♗×e6

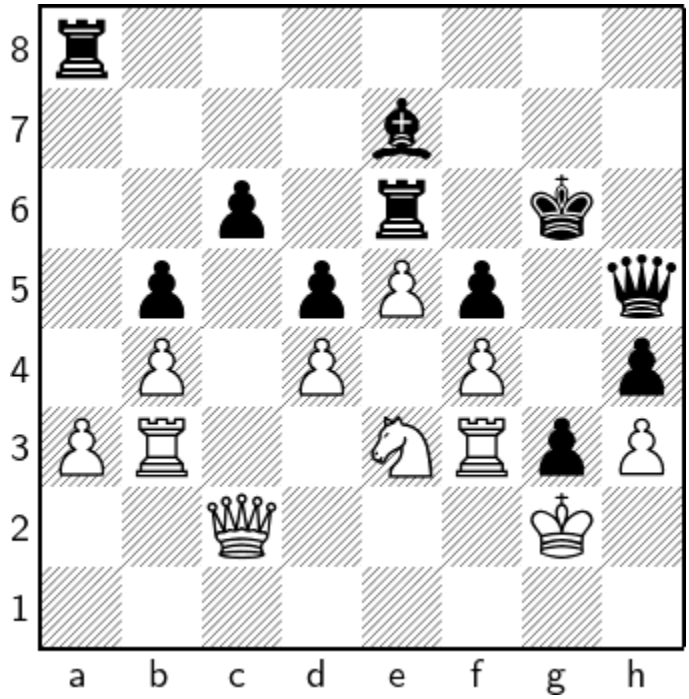
3…♗×e6 4 ♖e7#

1.120 ?

1.120.1 ?



1 ♘×f5 ♔f7 2 ♘×e7 ♔×e7 3 f5



1 ♘×f5 ♔f7

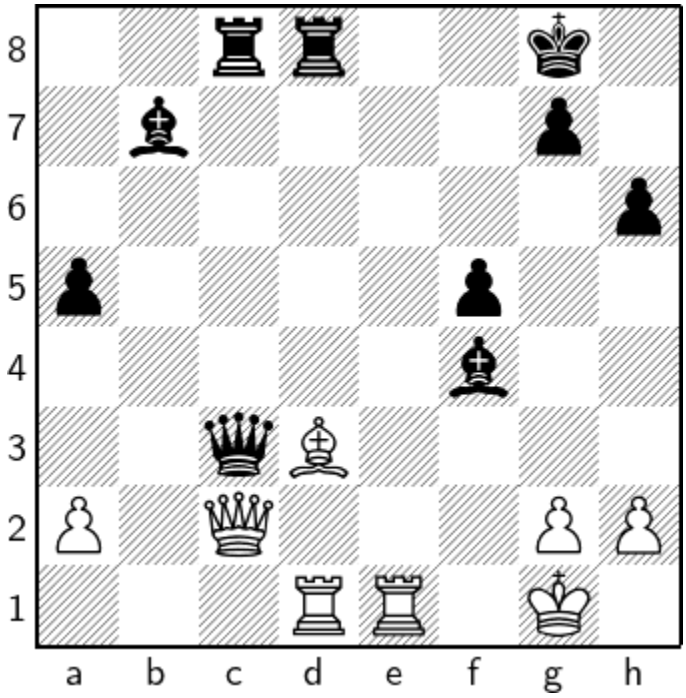
1…♕×f5 2 ♖×g3+

2 ♘×e7 ♔×e7

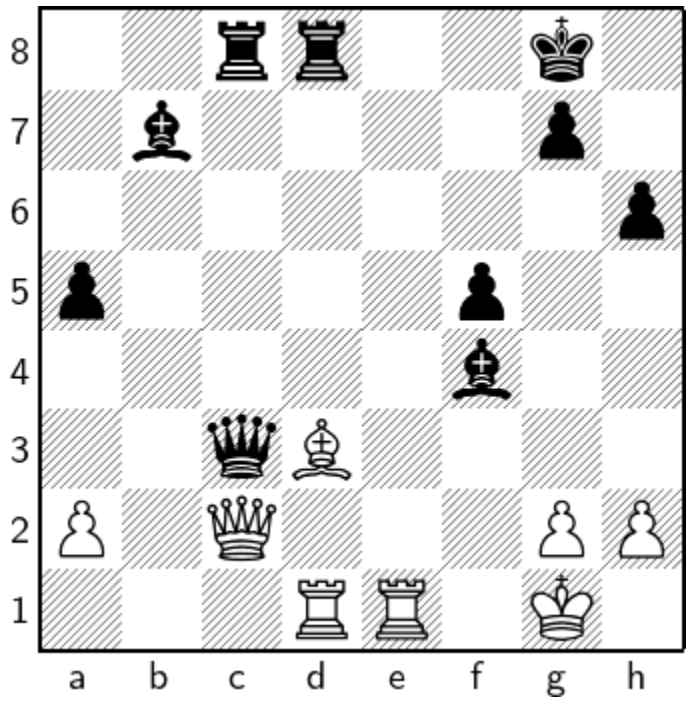
2…♖×e7 3 ♕×c6 ♕f5 4 ♕×d5+ ♖e6

1.121 ?

1.121.1 ?



1 ♗c4+ ♕×c4 2 ♖×d8+ ♔f7 3 ♕×f5#



1 ♗c4+ ♕×c4

a) 1…♕×c4 2 ♖×d8+ ♖×d8
a1) *2…♔f7 3 ♕×f5#*
a2) *2…♔h7 3 ♕×f5+* 3 ♕×c4+

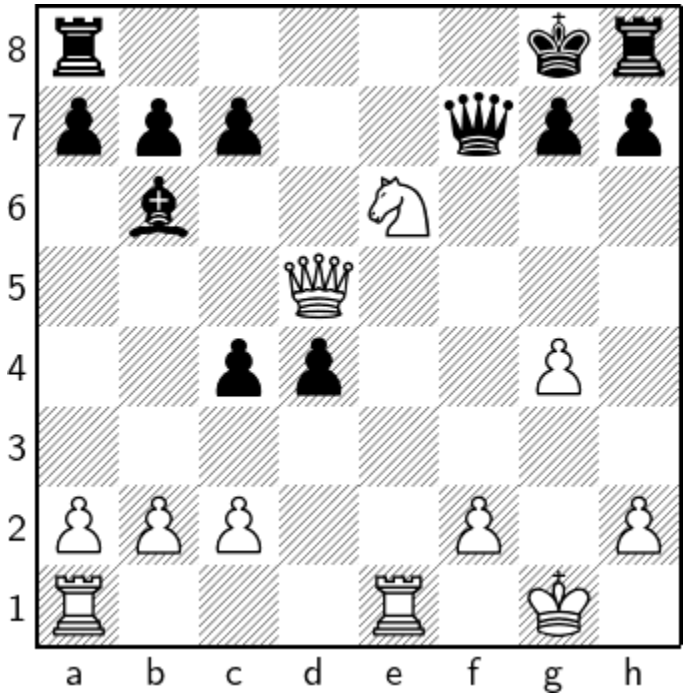
b) 1…♖×c4 2 ♖×d8+

2 ♖×d8+ ♔f7

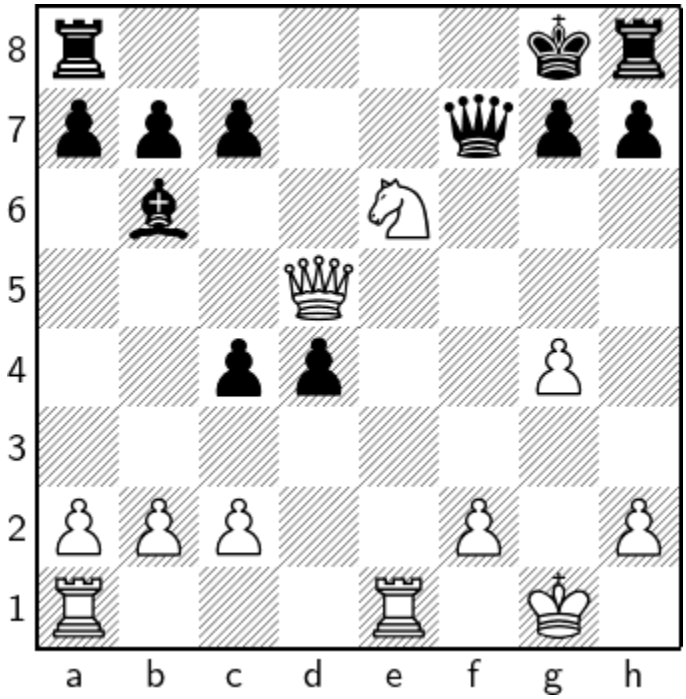
2…♖×d8 3 ♕×c4+ ♗d5 4 ♕×f4 ♗×a2 5 ♕×f5 ♖a8

1.122 ?

1.122.1 ?

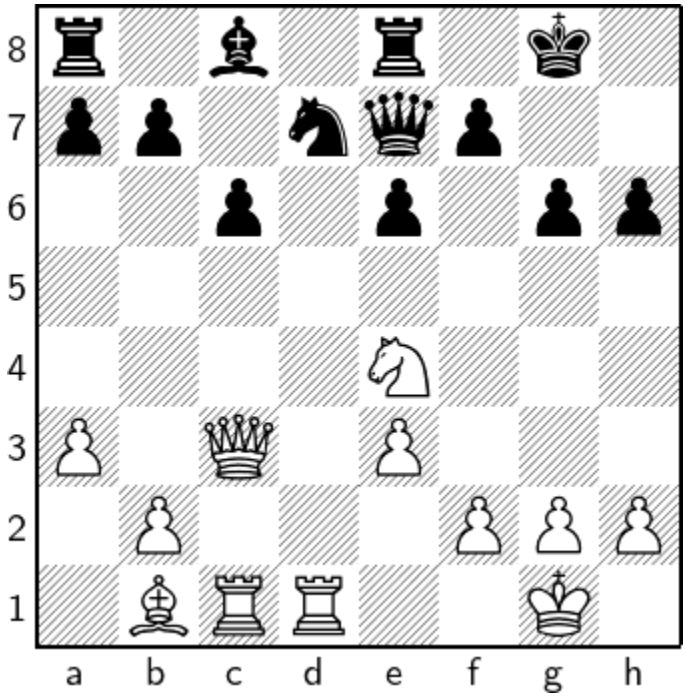


1 ♘d8 ♖×d8 2 ♕×d8+ ♕f8 3 ♕d5+ ♕f7 4 ♖e8#

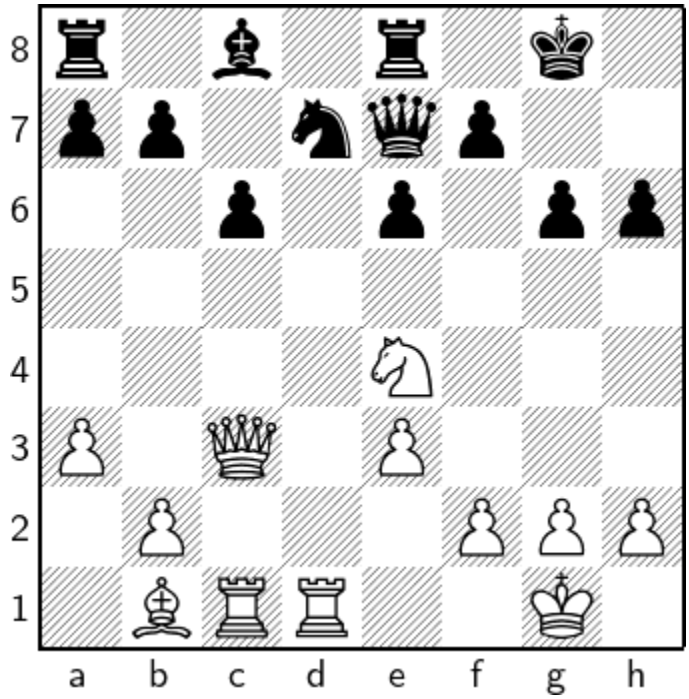


1.123 ?

1.123.1 ?



1 ♖×d7 ♗×d7 2 ♘f6+ ♔f8 3 ♘d5



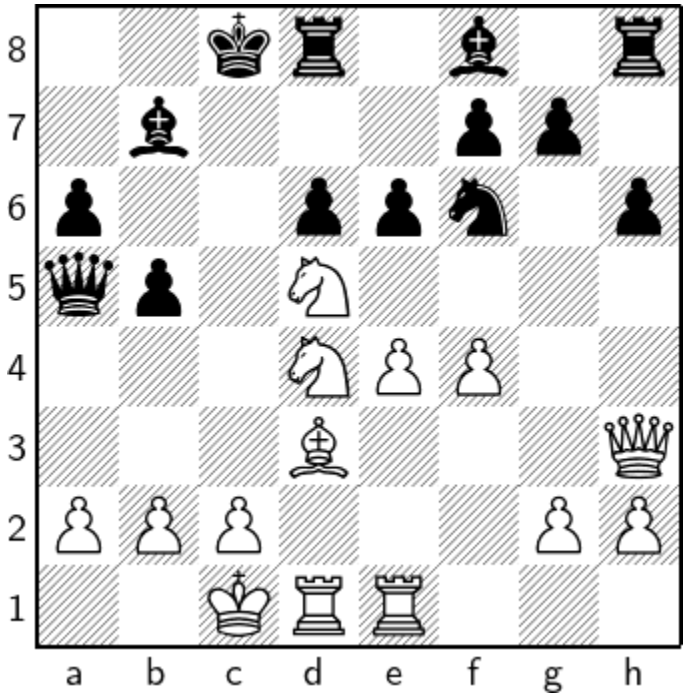
1 ♖×d7 ♗×d7

a) 1…♗×d7 2 ♘f6+ ♕×f6
a1) *2…♔f8 3 ♘d5*
a2) *2…♔g7 3 ♘h5+*
a3) *2…♔h8 3 ♘d5+* 3 ♕d4

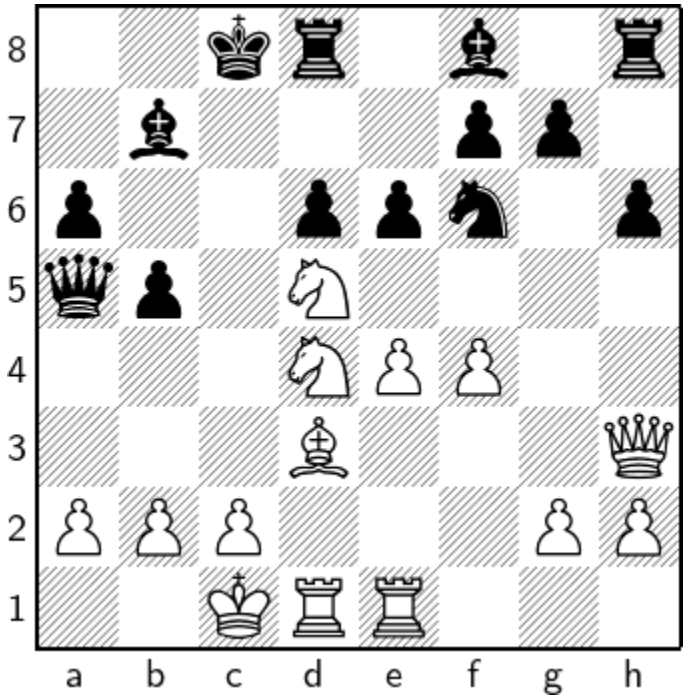
b) 1…♕×d7 2 ♘f6+

1.124 ?

1.124.1 ?



1 ♘b3 ♕a4 2 ♘b6+

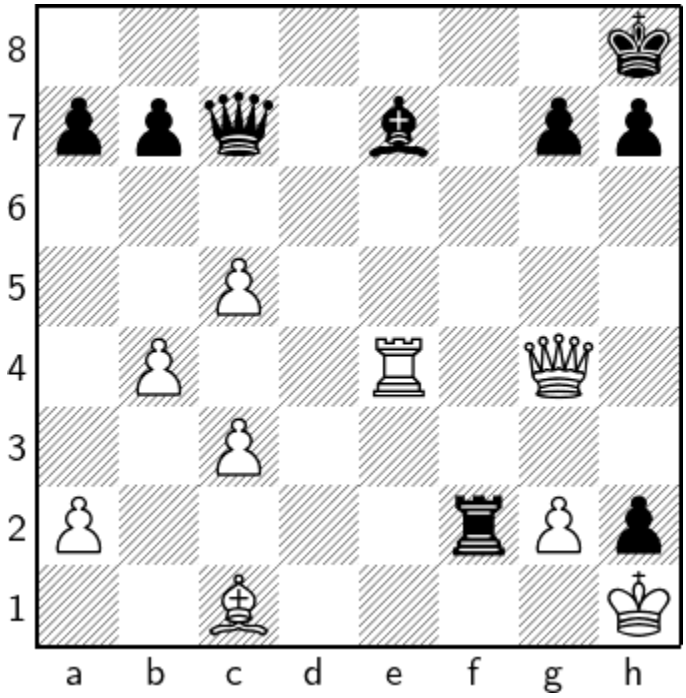


1 ♘b3 ♕a4

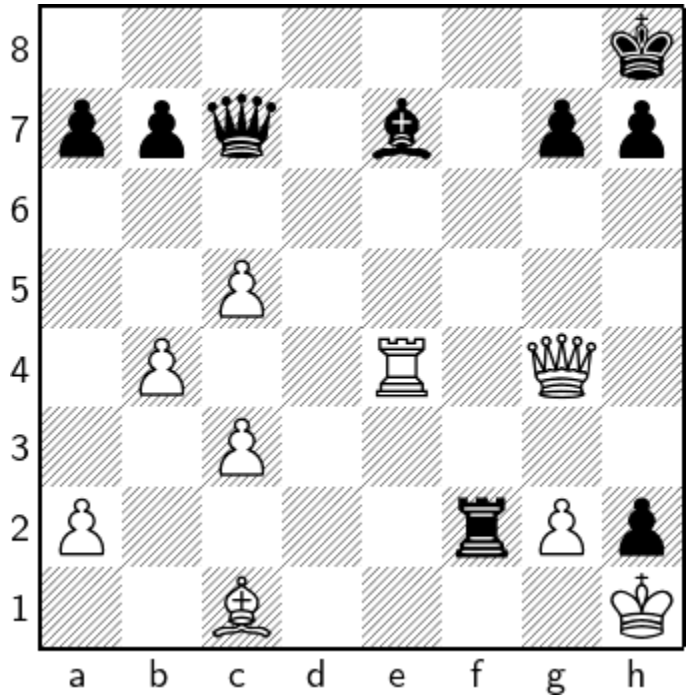
1…♕×e1 2 ♖×e1 ♘d7

1.125 ?

1.125.1 ?



1 ♗f4 ♕d8 2 ♖×e7 ♕f8 3 ♕×g7+ ♕×g7 4 ♖e8+



1 ♗f4 ♕d8

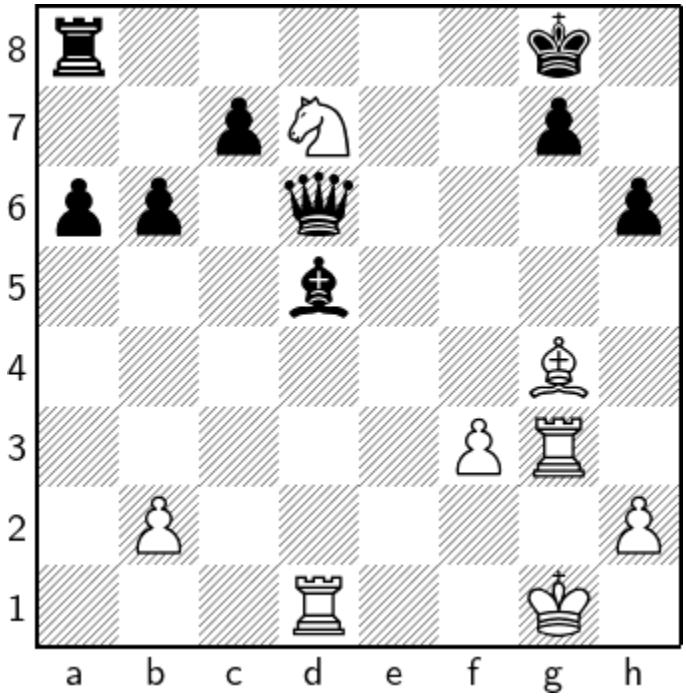
1…♖f1+ 2 ♔×h2 ♖×f4 3 ♕×f4 ♕×f4+ 4 ♖×f4 ♔g8

2 ♖×e7 ♕f8

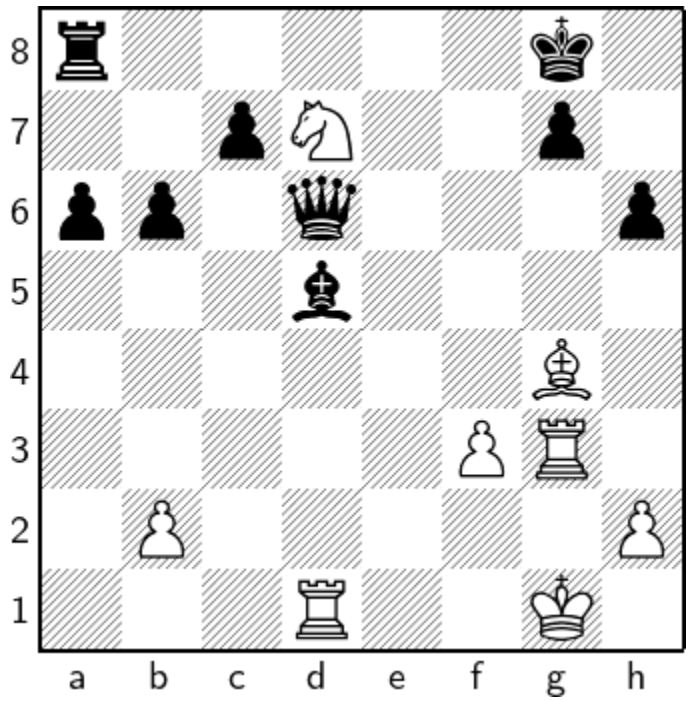
2…♕×e7 3 ♕c8+

1.126 ?

1.126.1 ?



1 ♖×d5 ♕×d5 2 ♘f6+ g×f6 3 ♗e6+

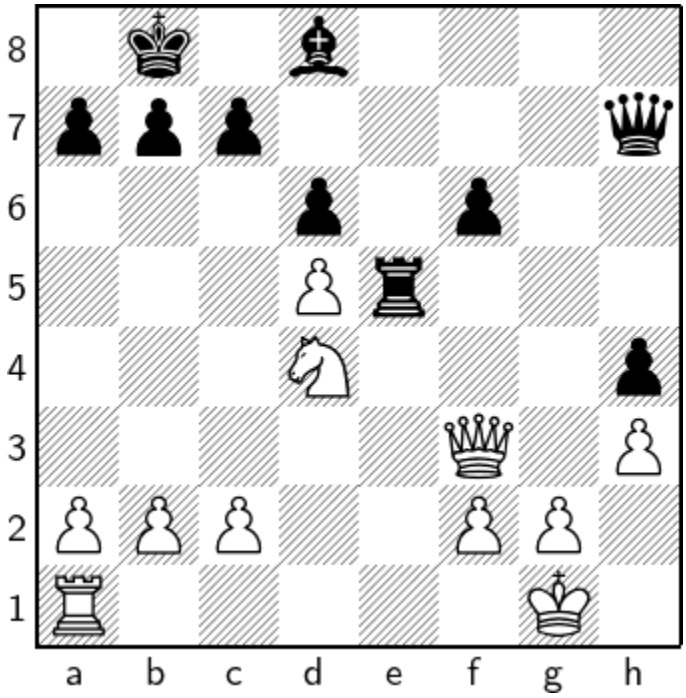


1 ♖×d5 ♕×d5

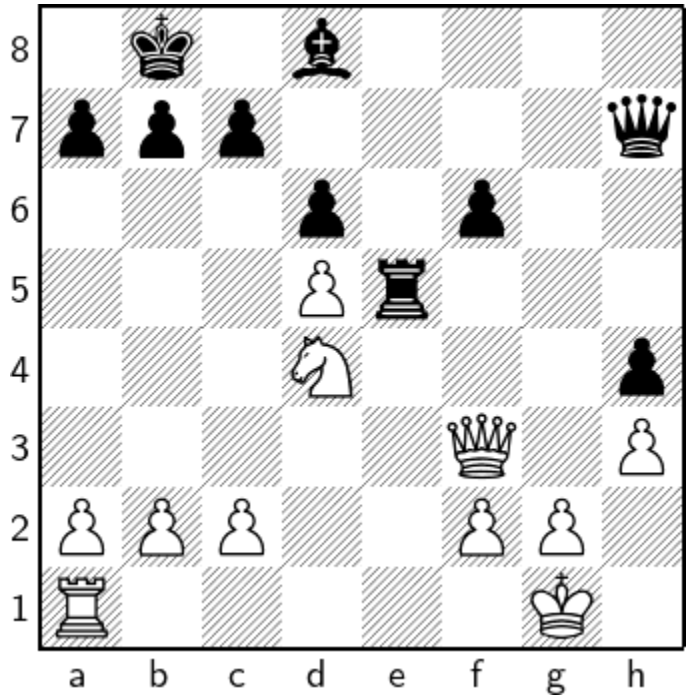
1…♕c6 2 ♖d1 ♕a4

1.127 ?

1.127.1 ?



1 ♘c6+ b×c6 2 ♕b3+ ♔c8 3 d×c6

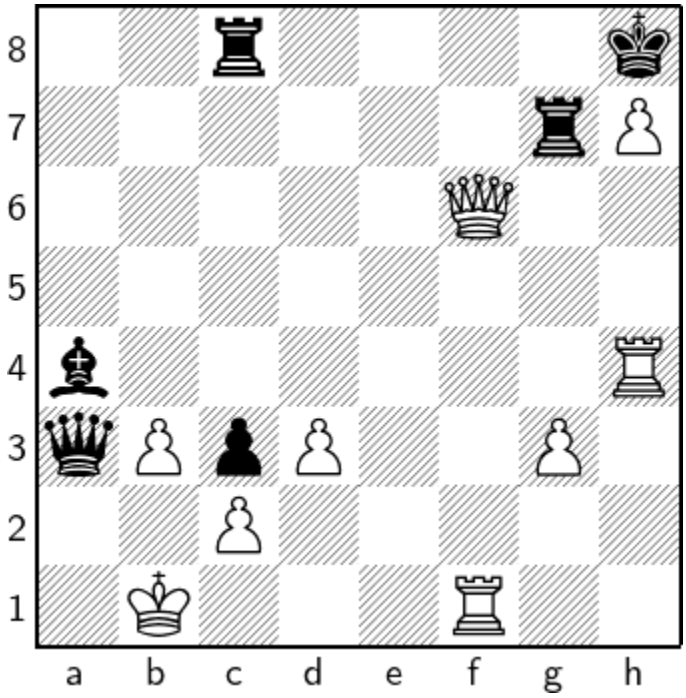


1 ♘c6+ b×c6

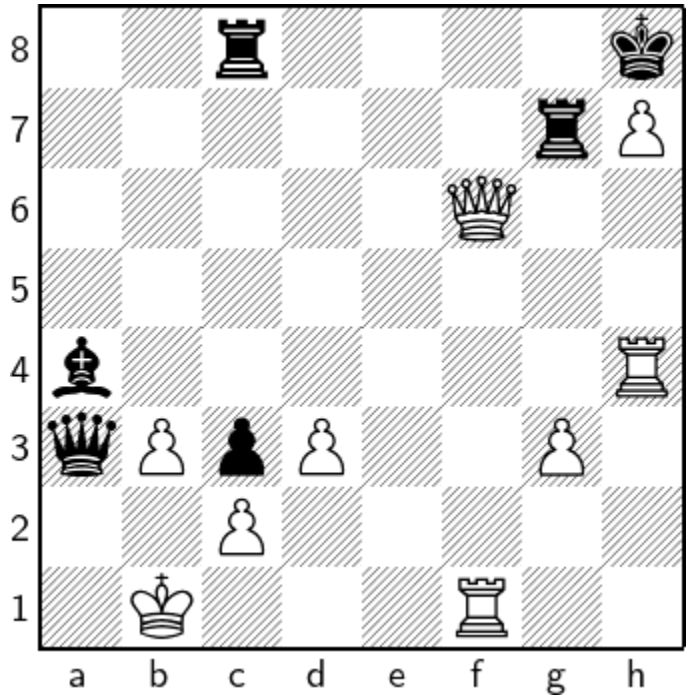
1…♔c8 2 ♕g4+ f5 3 ♘×a7+ ♔d7

1.128 ?

1.128.1 ?



1 ♕×g7+ ♔×g7 2 h8♕+ ♖×h8 3 ♖g4+ ♔h6 4 ♖h1#



1 ♕×g7+ ♔×g7

1…♔×g7 2 h8♕+

2 h8♕+ ♖×h8

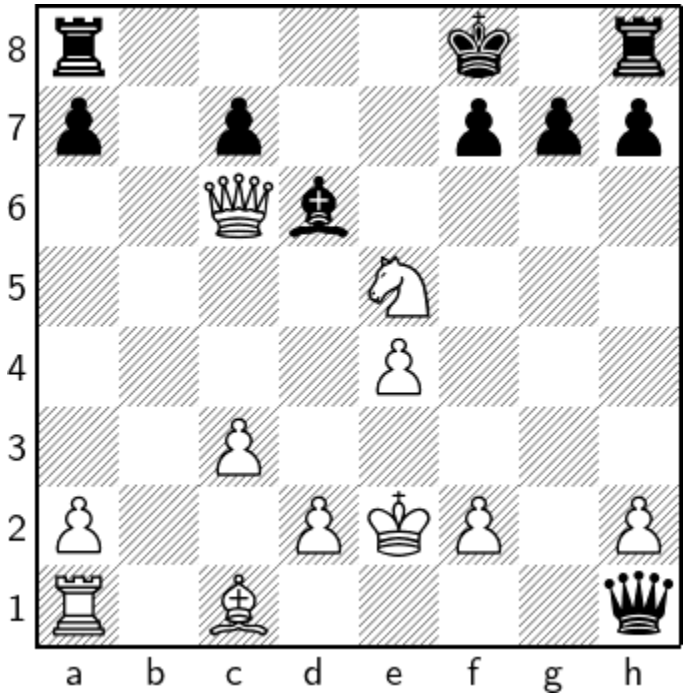
2…♖×h8 3 ♖g4+

3 ♖g4+ ♔h6

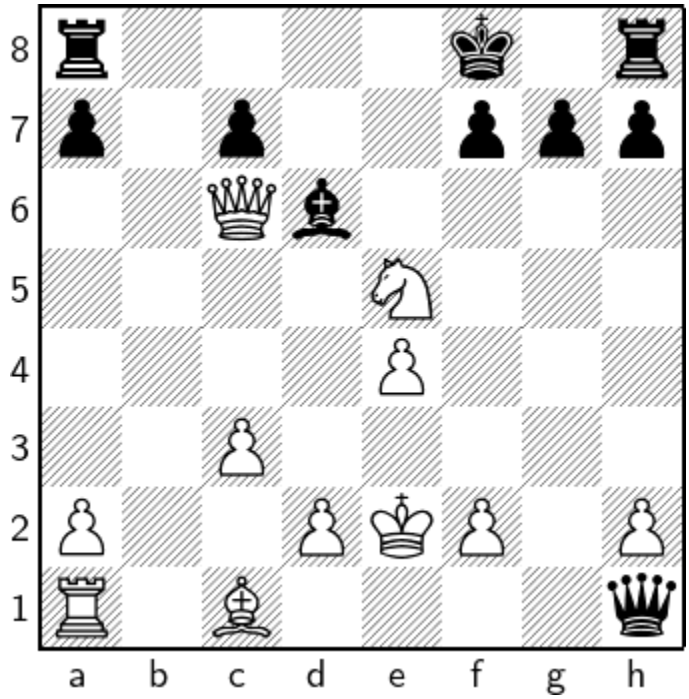
3…♔h7 4 ♖h1#

1.129 ?

1.129.1 ?

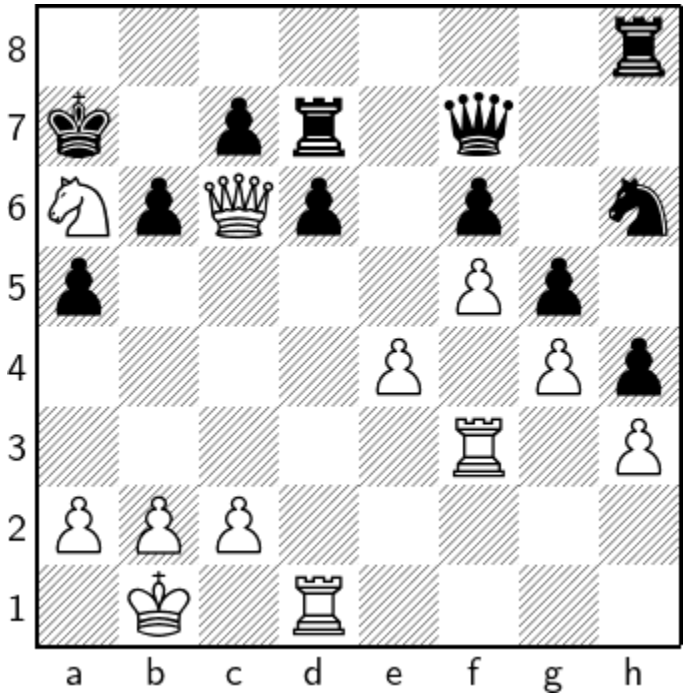


1 ♗a3 ♕×a1 2 ♕d5

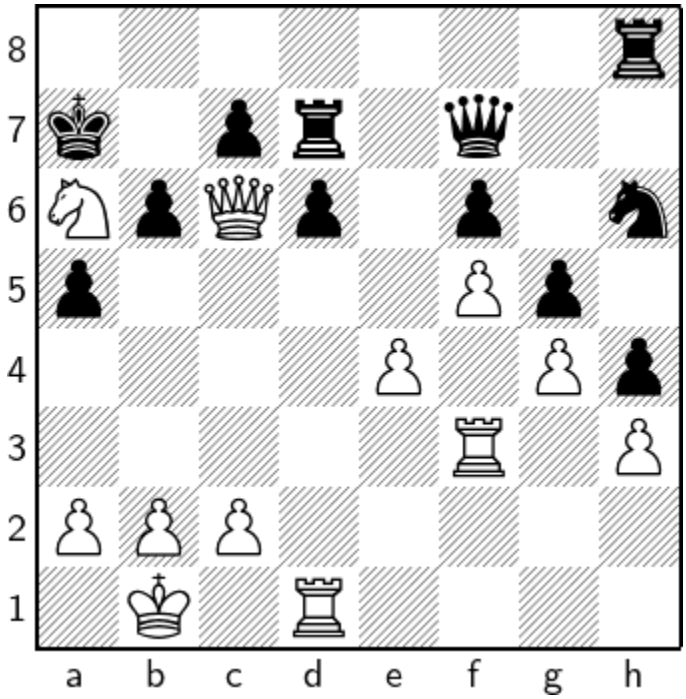


1.130 ?

1.130.1 ?



1 ♘c5 b×c5 2 ♖a3



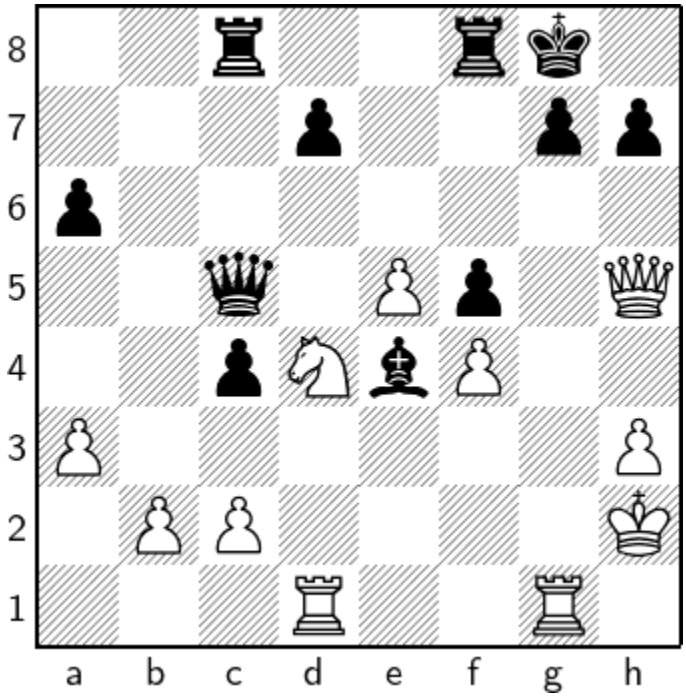
1 ♘c5 b×c5

a) 1…b×c5 2 ♖a3

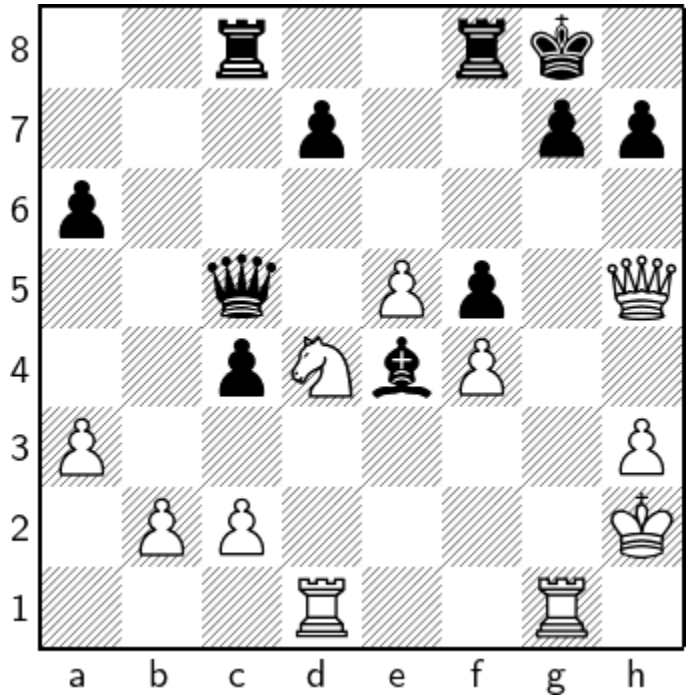
b) 1…d×c5 2 ♖×d7

1.131 ?

1.131.1 ?

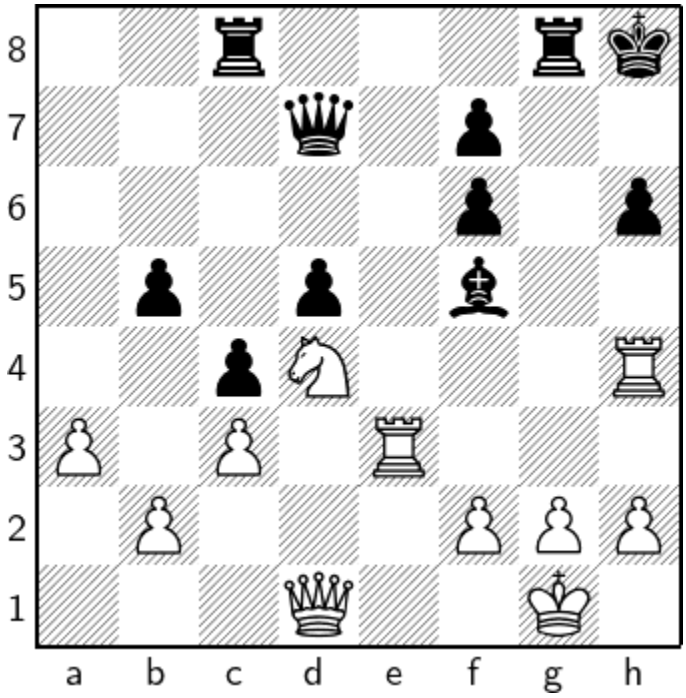


1 ♖×g7+ ♔×g7 2 ♘e6+ d×e6 3 ♖d7+

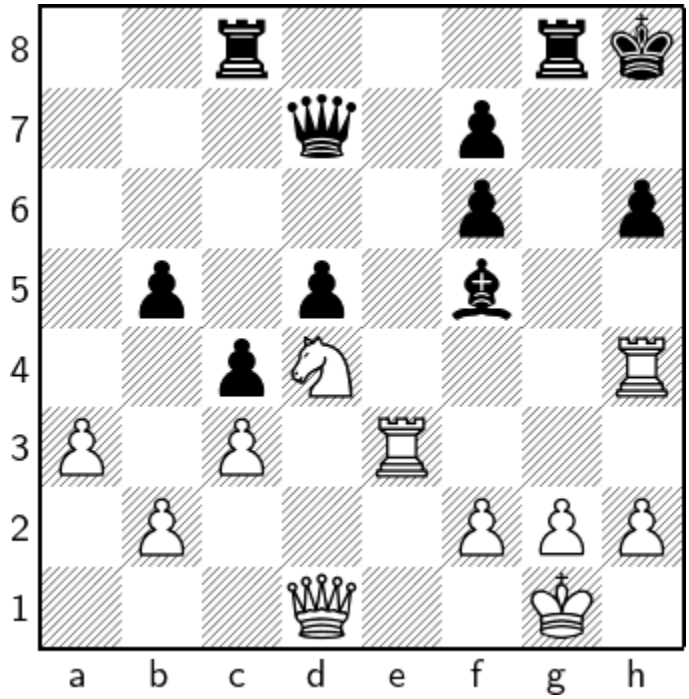


1.132 ?

1.132.1 ?



1 ♖e7 ♕×e7 2 ♘×f5

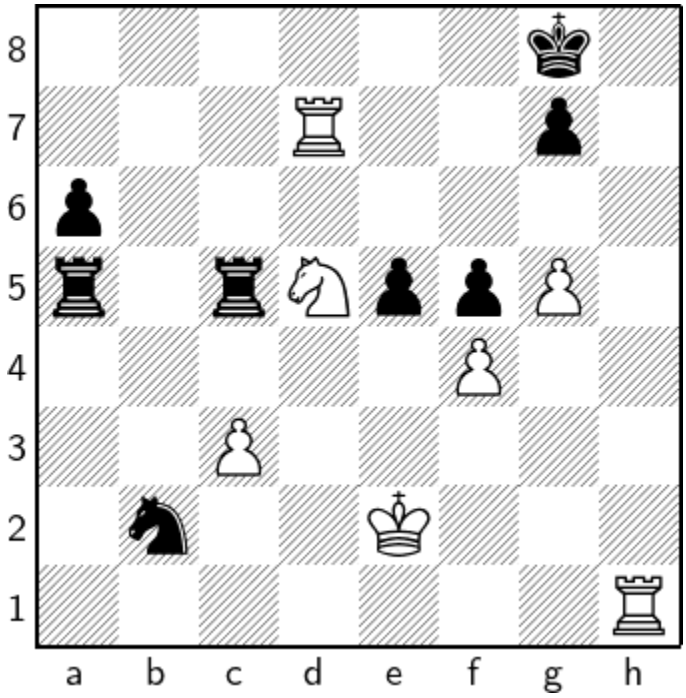


1 ♖e7 ♕×e7

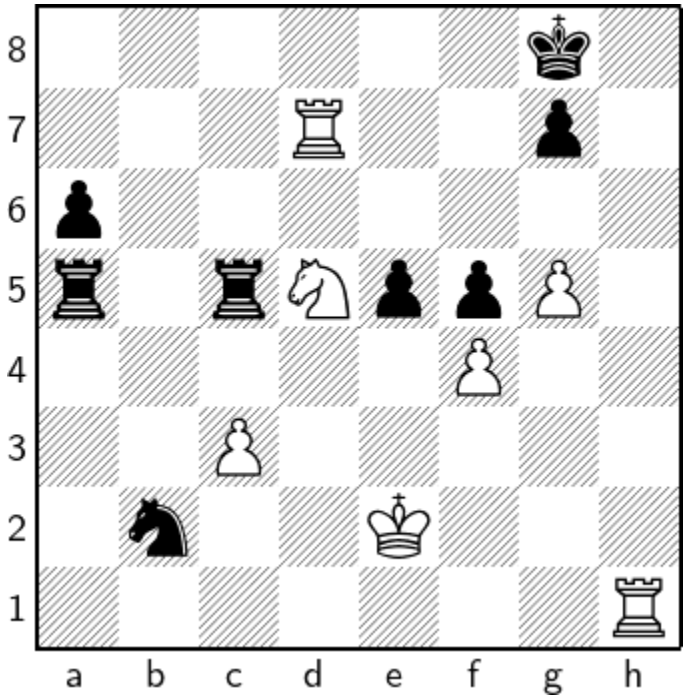
1…♖×g2+ 2 ♔×g2 ♖g8+ 3 ♔h1 ♗e4+ 4 ♖e×e4 d×e4 5 ♖×h6+ ♔g7 6 ♖h4

1.133 ?

1.133.1 ?



1 ♘f6+ g×f6 2 g×f6

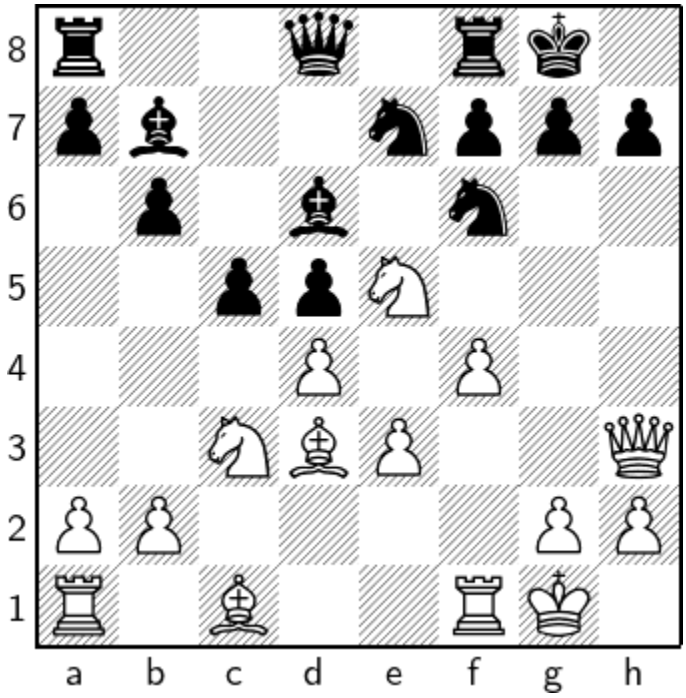


1 ♘f6+ g×f6

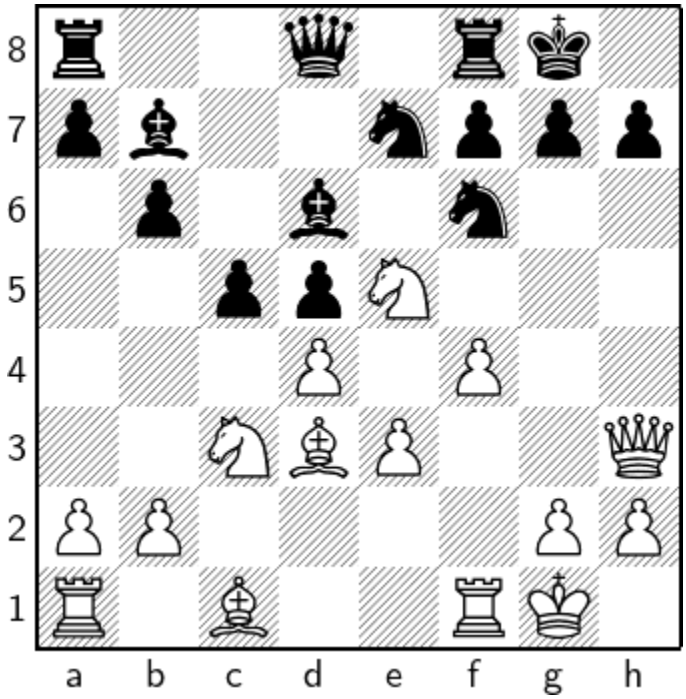
1…g×f6 2 g×f6

1.134 ?

1.134.1 ?

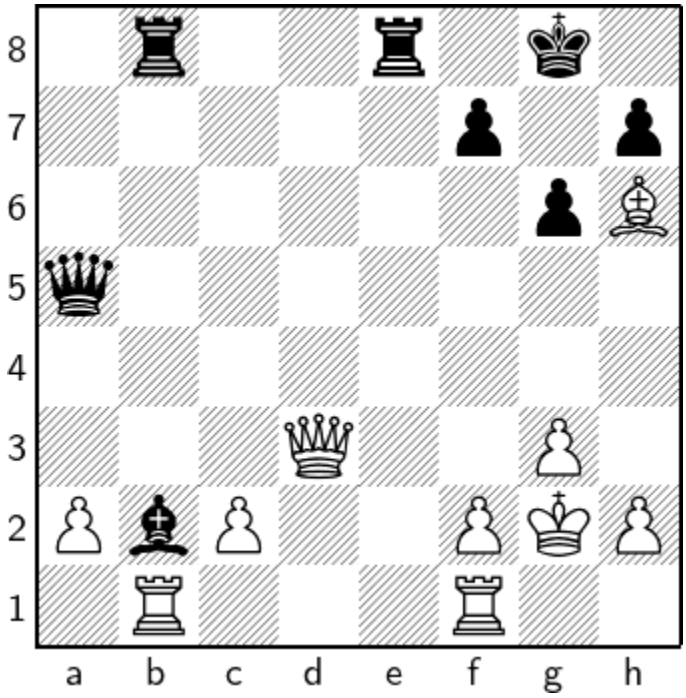


1 ♘d7 ♘g6 2 ♘×f8

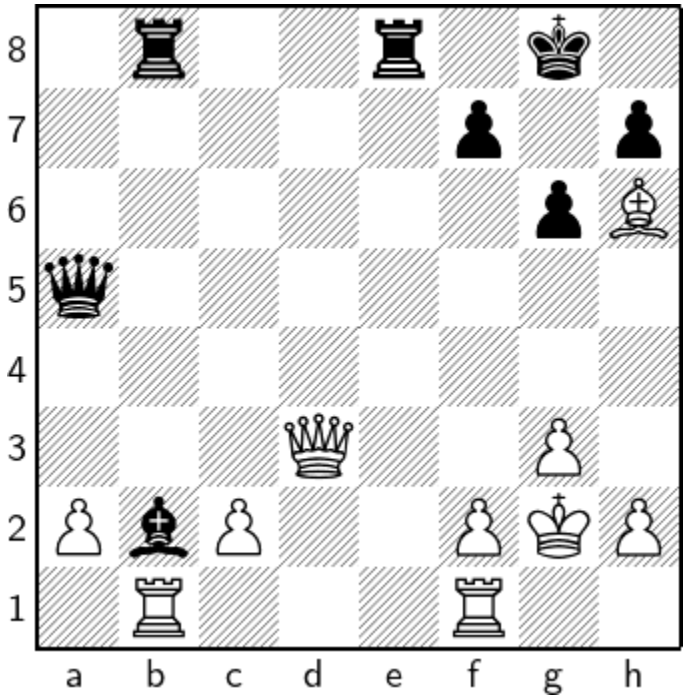


1.135 ?

1.135.1 ?



1 ♖×b2 ♖×b2 2 ♕d4 ♕e5 3 ♖e1



1 ♖×b2 ♖×b2

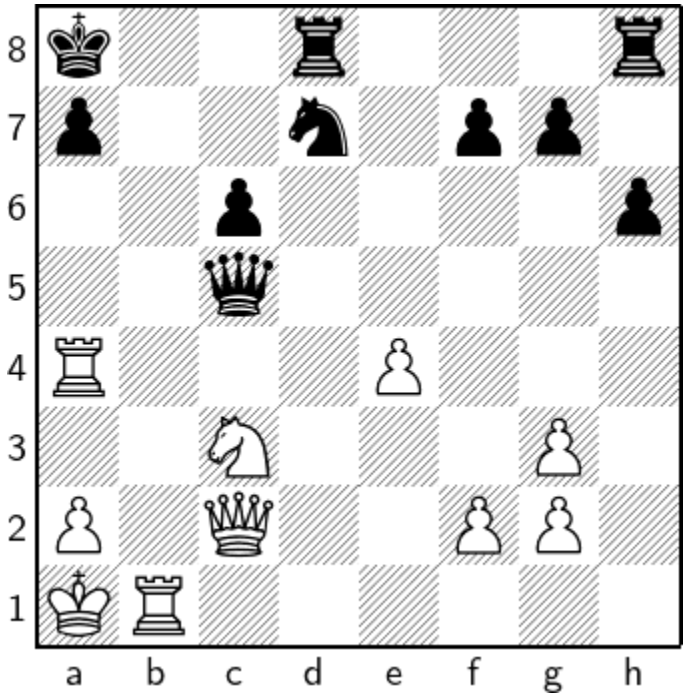
1…♖×b2 2 ♕d4

2 ♕d4 ♕e5

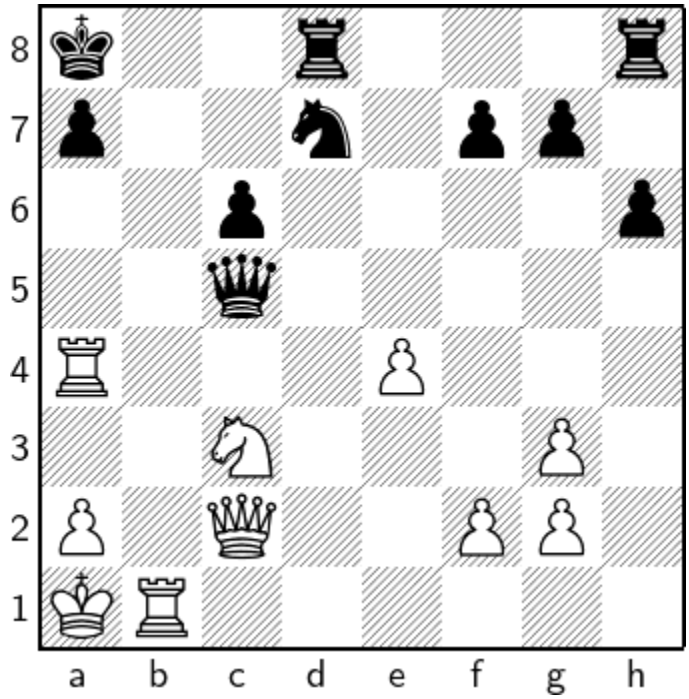
2…♖e5 3 ♕×b2 ♕b5

1.136 ?

1.136.1 ?



1 ♘d5 ♖c8 2 ♕×c5 ♘×c5 3 ♘b6+



1 ♘d5 ♖c8

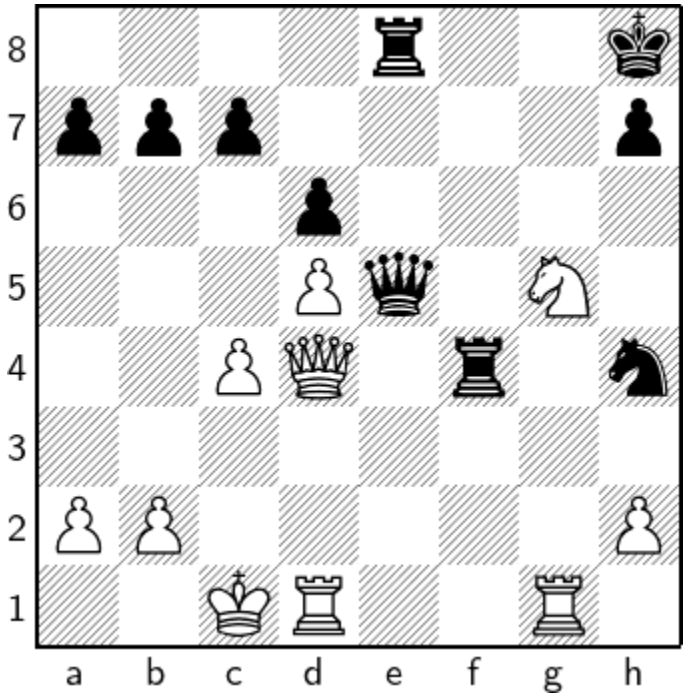
1…c×d5 2 ♖×a7+

2 ♕×c5

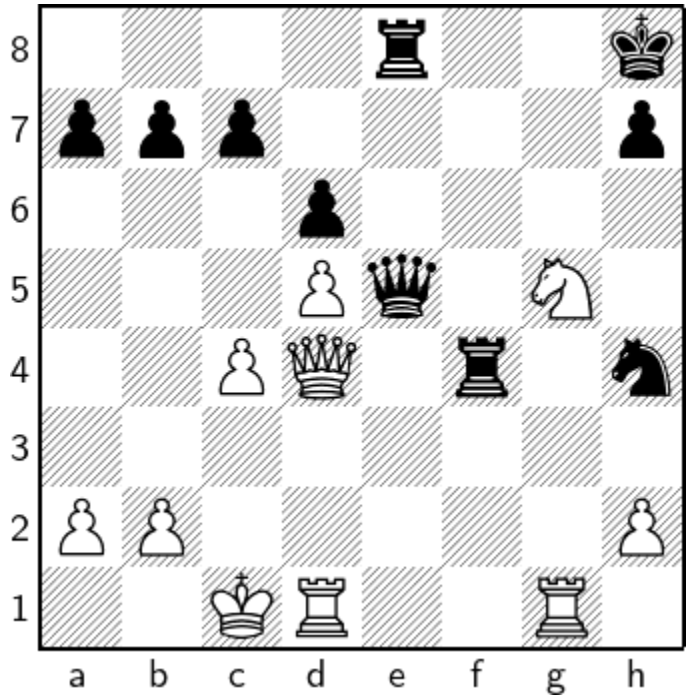
2 ♕b2 ♕b5 3 ♕a3 ♕×b1+ 4 ♔×b1 ♖b8+ 5 ♔c2 ♖b7

1.137 ?

1.137.1 ?



1 ♖de1 h6 2 ♖×e5 d×e5 3 ♕d1

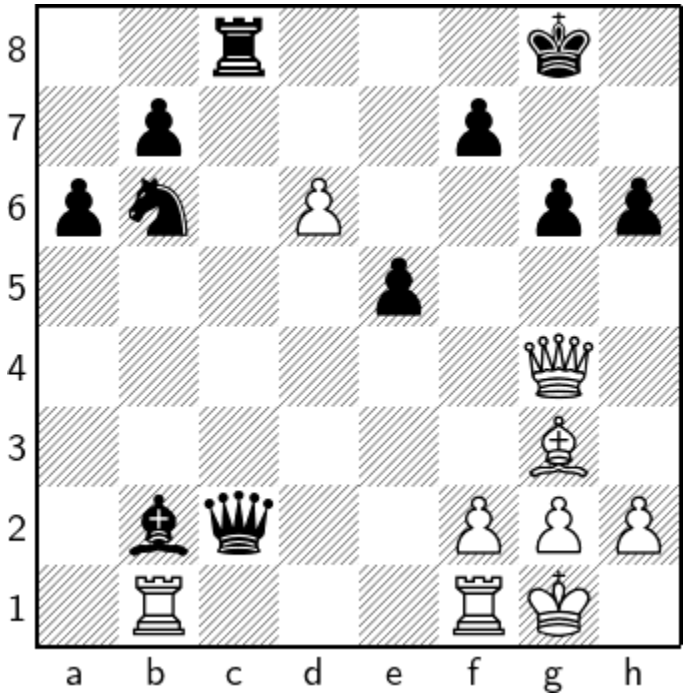


1 ♖de1 h6 2 ♖×e5 d×e5

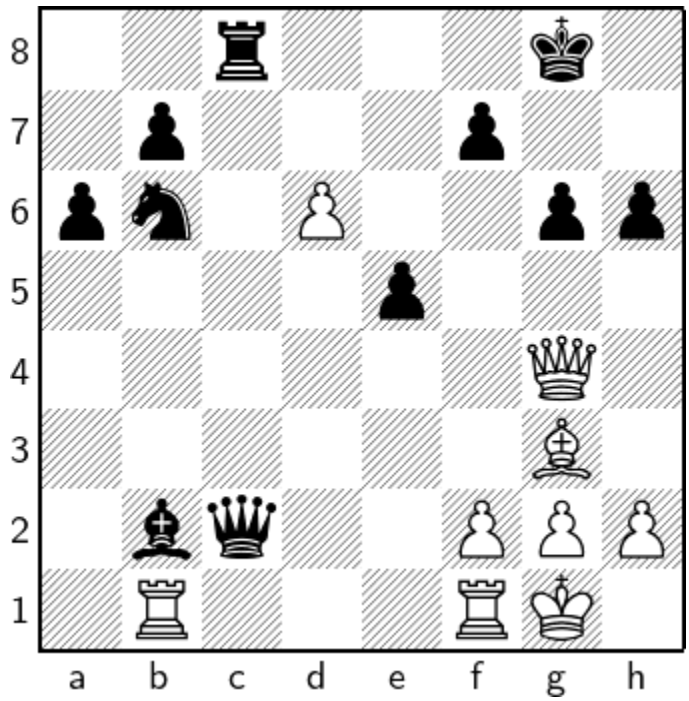
2…♖×d4 3 ♖×e8+ ♔g7 4 ♘e6+ ♔f6 5 ♘×d4 ♔f7 6 ♖ee1 ♔f6 7 ♖ef1+ ♔e5 8 ♖g4 c5 9 ♖×h4 c×d4 10 ♖f8 d3 11 ♖hf4 d2+ 12 ♔×d2 h5 13 ♖8f5#

1.138 ?

1.138.1 ?



1 ♖×b2 ♕×b2 2 ♕×c8+ ♘×c8 3 d7

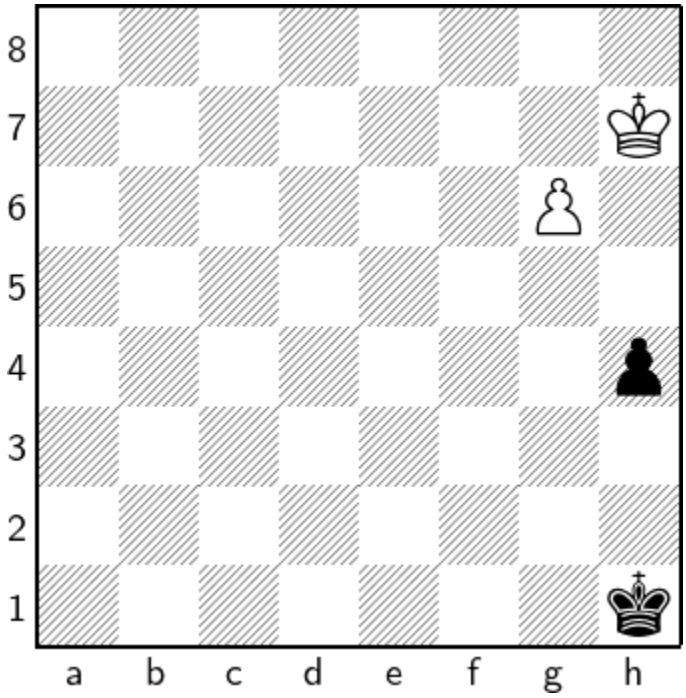


1 ♖×b2 ♕×b2

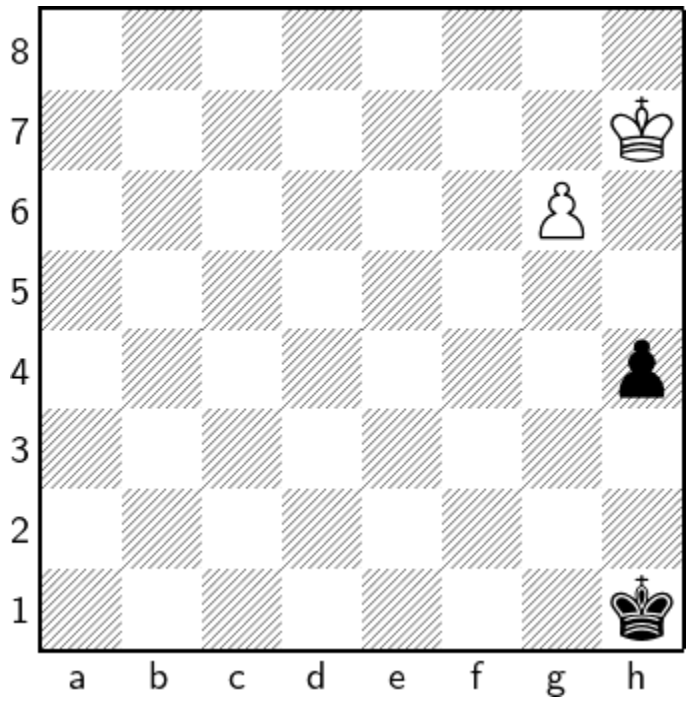
1…♕×b2 2 ♕×c8+ ♘×c8
a) *2…♔g7 3 ♕e8*
b) *2…♔h7 3 ♕×b7* 3 d7

1.139 ?

1.139.1 ?



1 g7 h3 2 g8♕ h2 3 ♔g6 ♔g2 4 ♔f5+ ♔f1 5 ♕h8 ♔g1 6 ♕a1+ ♔g2 7 ♕a2+ ♔g1 8 ♔g4 h1♕ 9 ♔g3



1 g7 h3 2 g8♕ h2 3 ♔g6 ♔g2

3…♔g1 4 ♔f5+ ♔f2 5 ♕a2+ ♔g3 6 ♕b1 ♔g2 7 ♕e4+ ♔g1 8 ♔f4 h1♕ 9 ♕e1+ ♔g2 10 ♕e2+ ♔g1 11 ♔g3 ♕h4+ 12 ♔×h4 ♔h1 13 ♔g3 ♔g1 14 ♕d1#

4 ♔f5+ ♔f1

4…♔f2 5 ♕d5 ♔e3 6 ♕d1 h1♕ 7 ♕×h1 ♔d3 8 ♕c6 ♔d4 9 ♔f4 ♔d3 10 ♕c5 ♔d2 11 ♔e4 ♔e2 12 ♕c2+ ♔f1 13 ♔f3 ♔e1 14 ♕c1#

5 ♕h8

5 ♕d5 ♔e2 6 ♔f4 h1♕ 7 ♕×h1 ♔d3 8 ♕c6 ♔d4 9 ♕b5 ♔c3 10 ♔e3 ♔c2 11 ♕b4 ♔c1 12 ♔d3 ♔d1 13 ♕b1#

5…♔g1 6 ♕a1+

6 ♕d4+ ♔g2 7 ♔f4 h1♕ 8 ♕d2+ ♔f1 9 ♕d1+ ♔g2 10 ♕e2+ ♔g1 11 ♔g3 ♕h4+ 12 ♔×h4 ♔h1 13 ♔g3 ♔g1 14 ♕d1#

6…♔g2 7 ♕a2+

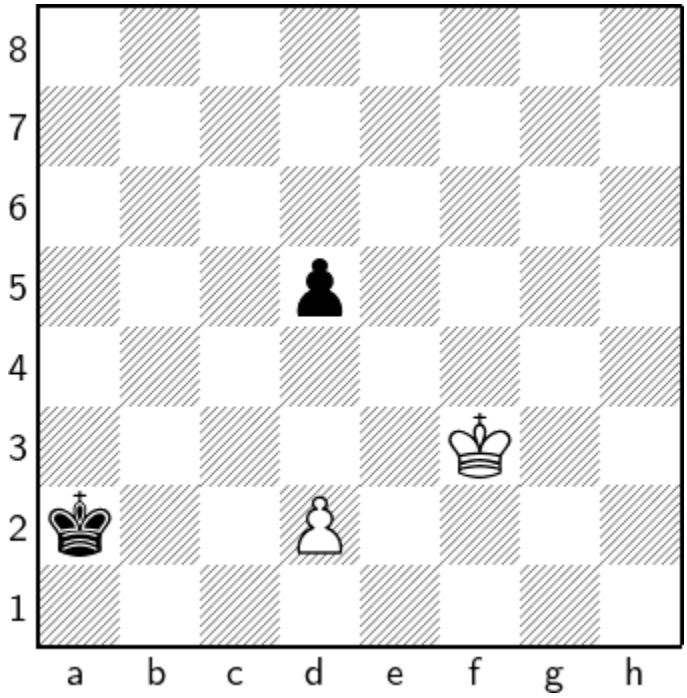
7 ♕b2+ ♔g3 8 ♕e5+ ♔f2 9 ♕×h2+ ♔e3 10 ♕d6 ♔f2 11 ♔f4 ♔e2 12 ♕d5 ♔f2 13 ♕a2+ ♔e1 14 ♔e3 ♔d1 15 ♕b1#

7…♔g1

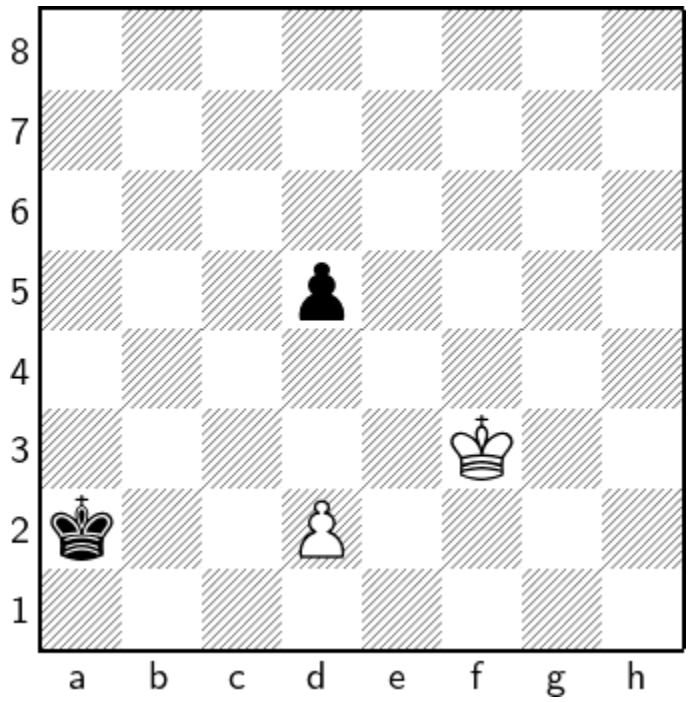
7…♔g3 8 ♕a8 ♔f2 9 ♕e4 h1♕ 10 ♕×h1 ♔e2 11 ♕d5 ♔e3 12 ♕d1 ♔f2 13 ♔f4 ♔g2 14 ♕d2+ ♔f1 15 ♔f3 ♔g1 16 ♕g2#

1.140 ?

1.140.1 ?



1 ♔f4 ♔b3 2 ♔e5 ♔c4 3 d4



1 ♔f4 ♔b3

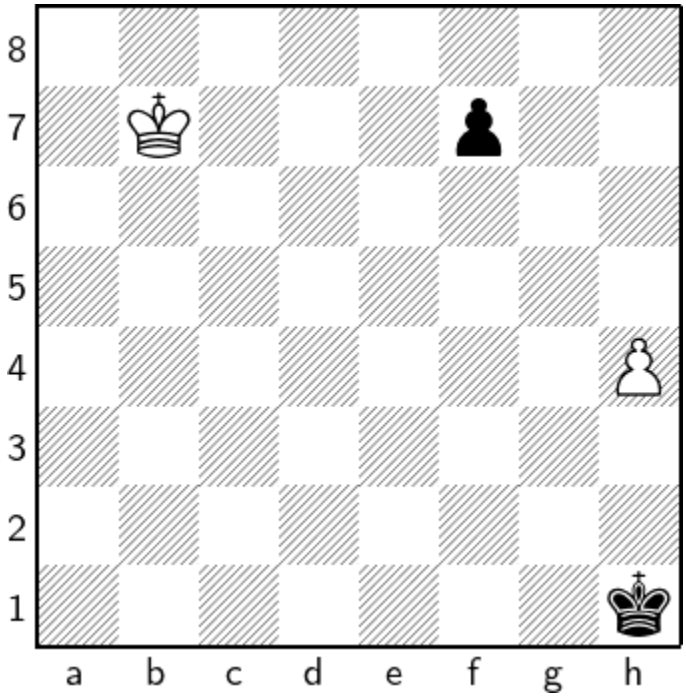
1…d4 2 ♔e4 d3 3 ♔×d3 ♔b3 4 ♔d4 ♔c2 5 d3 ♔d2 6 ♔e4 ♔c3 7 d4 ♔c4 8 d5 ♔b5 9 ♔f5 ♔b6 10 d6 ♔c6 11 ♔e6 ♔b6 12 d7 ♔c7 13 ♔e7 ♔b6 14 d8♕+ ♔c5 15 ♕d3 ♔c6 16 ♕c4+ ♔b7 17 ♔d6 ♔b8 18 ♕b3+ ♔a7 19 ♔c7 ♔a6 20 ♕a4#

2 ♔e5 ♔c4

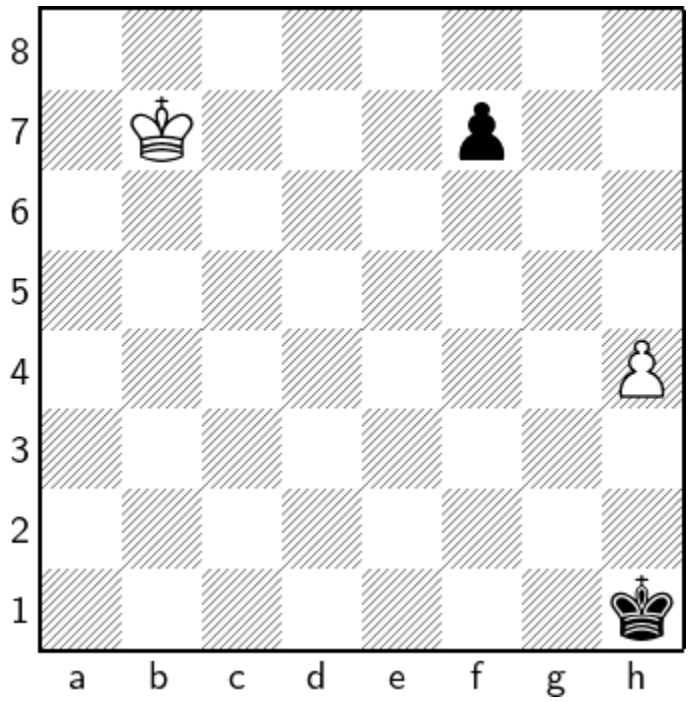
2…d4 3 ♔×d4 ♔c2 4 d3 ♔d2 5 ♔e4 ♔c3 6 d4 ♔b4 7 ♔e5 ♔c4 8 d5 ♔b5 9 d6 ♔b6 10 ♔e6 ♔c6 11 d7 ♔c7 12 ♔e7 ♔b6 13 d8♕+ ♔c5 14 ♕d3 ♔c6 15 ♕c4+ ♔b7 16 ♔d6 ♔b8 17 ♕b3+ ♔a7 18 ♔c6 ♔a6 19 ♕a2#

1.141 ?

1.141.1 ?



1 h5 f5 2 h6 f4 3 h7 f3 4 h8♕+ ♔g1 5 ♕g8+ ♔f1 6 ♕c4+



1 h5 f5

1…♔g2 2 h6 f5 3 h7 f4 4 h8♕ f3 5 ♕g8+ ♔f1 6 ♕c4+ ♔e1 7 ♕e4+ ♔f2 8 ♔c6 ♔g3 9 ♔d5 f2 10 ♕h1 ♔f4 11 ♕h3 f1♕ 12 ♕×f1+ ♔e3 13 ♔e5 ♔d2 14 ♔d4 ♔c2 15 ♔c4 ♔d2 16 ♕f2+ ♔c1 17 ♔c3 ♔b1 18 ♕b2#

2 h6 f4

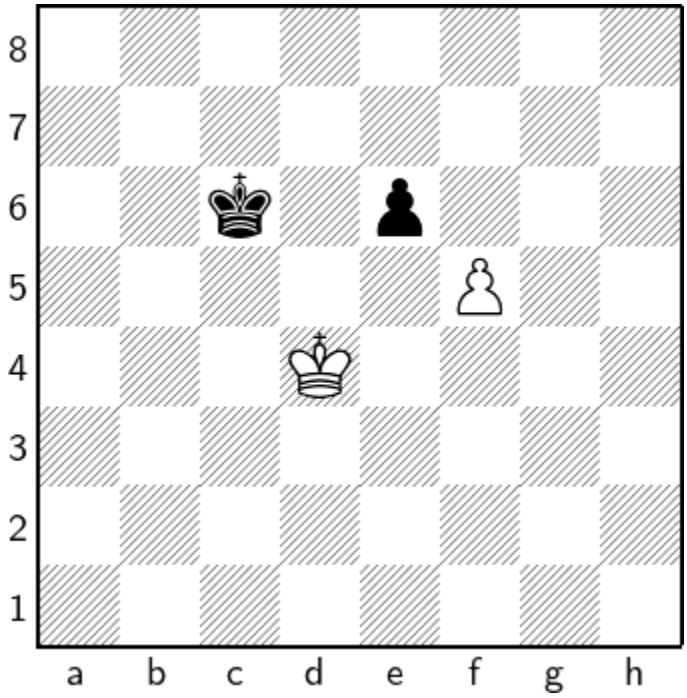
2…♔g2 3 h7 f4 4 h8♕ f3 5 ♕g8+ ♔f1 6 ♕c4+ ♔e1 7 ♕e4+ ♔f2 8 ♔c6 ♔g3 9 ♔d5 f2 10 ♕h1 ♔f4 11 ♕h3 f1♕ 12 ♕×f1+ ♔e3 13 ♕f5 ♔d2 14 ♔d4 ♔e2 15 ♕f4 ♔d1 16 ♕f2 ♔c1 17 ♔c3 ♔b1 18 ♕b2#

3 h7 f3

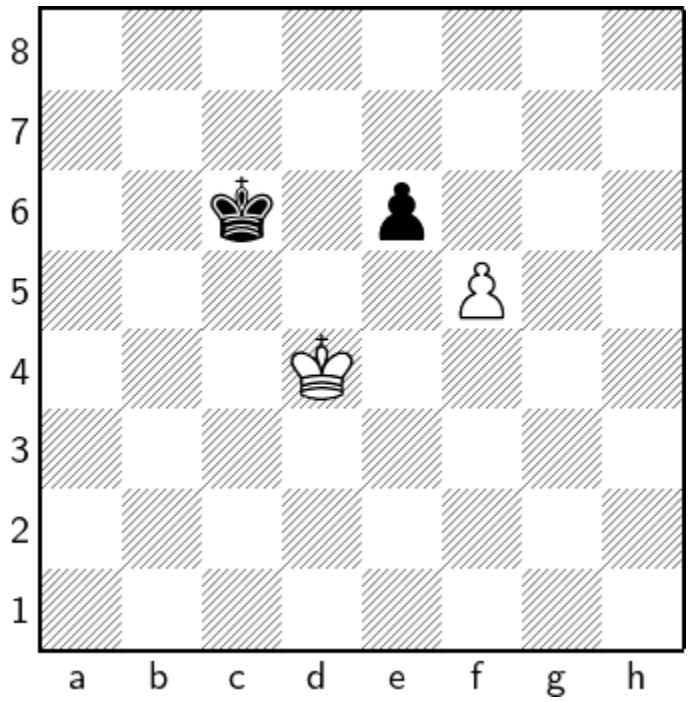
3…♔g1 4 h8♕ f3 5 ♕g8+ ♔f1 6 ♕c4+ ♔e1 7 ♕e4+ ♔f2 8 ♔c6 ♔g3 9 ♔d5 f2 10 ♕h1 ♔f4 11 ♕h3 f1♕ 12 ♕×f1+ ♔e3 13 ♕f7 ♔d2 14 ♕f3 ♔c1 15 ♔c4 ♔b1 16 ♔c3 ♔a1 17 ♕f2 ♔b1 18 ♕b2#

1.142 ?

1.142.1 ?



1 f6 ♔d6 2 ♔e4 ♔d7 3 ♔e5 ♔d8 4 ♔d6

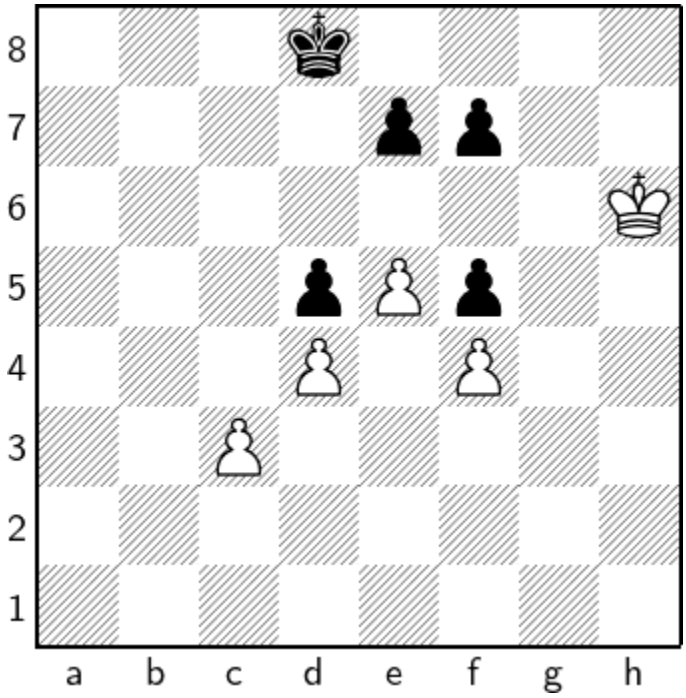


1 f6 ♔d6 2 ♔e4 ♔d7

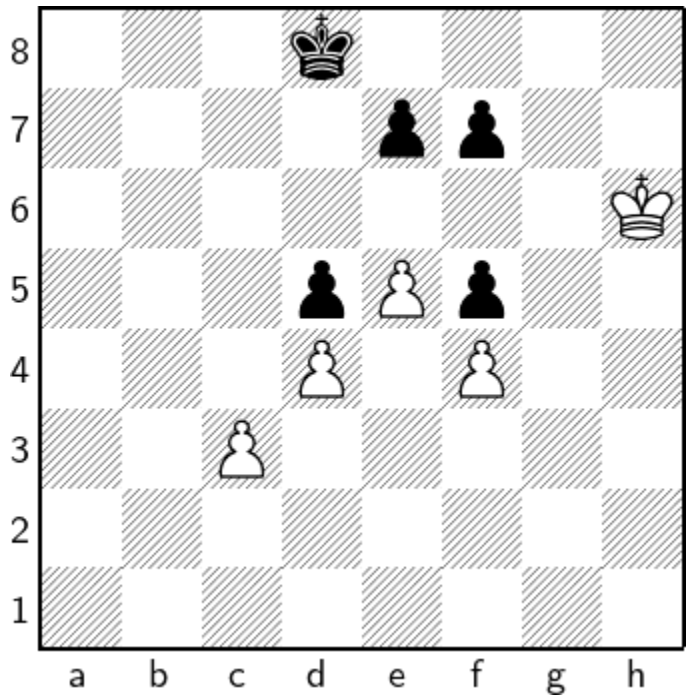
2…e5 3 ♔f5 e4 4 ♔g6 e3 5 f7 ♔d5 6 f8♕ ♔e4 7 ♕f5+ ♔d4 8 ♕f3 e2 9 ♕×e2 ♔d5 10 ♔f6 ♔d4 11 ♔e6 ♔c5 12 ♕e4 ♔b6 13 ♔d6 ♔b5 14 ♕d3+ ♔b4 15 ♔c6 ♔a4 16 ♔c5 ♔a5 17 ♕a3#

1.143 ?

1.143.1 ?



1 ♔g7 ♔e8 2 e6 f×e6 3 ♔g8 ♔d8 4 ♔f8 ♔d7 5 ♔f7 ♔d6 6 ♔e8 e5 7 d×e5+ ♔e6 8 ♔f8 ♔d7 9 ♔f7 e6 10 ♔f6



1 ♔g7 ♔e8 2 e6 f×e6

2…f×e6 3 ♔g8

3 ♔g8 ♔d8

3…e5 4 d×e5 e6 5 ♔g7 ♔e7 6 ♔g6 ♔e8 7 ♔f6 ♔d7 8 ♔f7 ♔c6 9 ♔×e6 ♔c5 10 ♔×f5 d4 11 c×d4+ ♔d5 12 e6 ♔c6 13 ♔e5 ♔c7 14 f5 ♔d8 15 f6 ♔e8 16 d5 ♔f8 17 d6 ♔e8 18 f7+ ♔f8 19 d7 ♔e7 20 f8♕+ ♔×f8 21 ♔f6 ♔g8 22 ♔g6 ♔h8 23 d8♕#

4 ♔f8 ♔d7 5 ♔f7 ♔d6

5…♔d8 6 ♔×e6 ♔e8 7 ♔×d5 ♔d7 8 c4 e6+ 9 ♔e5 ♔e7 10 c5 ♔d7 11 ♔f6 e5 12 d×e5 ♔c6 13 e6 ♔×c5 14 e7 ♔c4 15 e8♕ ♔d3 16 ♕e1 ♔d4 17 ♔e6 ♔c4 18 ♕e3 ♔b5 19 ♔d5 ♔b4 20 ♕d3 ♔a5 21 ♕b3 ♔a6 22 ♔c6 ♔a5 23 ♕a3#

6 ♔e8 e5

6…♔c6 7 ♔×e7 ♔b5 8 ♔×e6 ♔c6 9 ♔×f5 ♔d6 10 ♔f6 ♔d7 11 ♔e5 ♔c6 12 f5 ♔c7 13 ♔×d5 ♔d7 14 f6 ♔e8 15 ♔e6 ♔f8 16 d5 ♔e8 17 f7+ ♔f8 18 d6 ♔g7 19 d7 ♔h6 20 d8♕ ♔g6 21 f8♕ ♔h5 22 ♕f5+ ♔h6 23 ♕dg5#

7 d×e5+ ♔e6 8 ♔f8

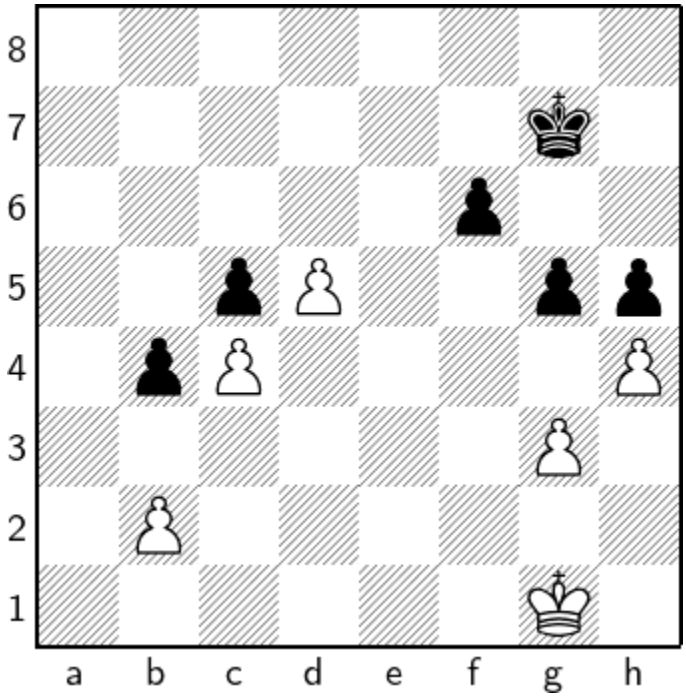
8 ♔d8 d4 9 c×d4 ♔d5 10 ♔×e7 ♔e4 11 e6 ♔×f4 12 ♔f6 ♔e4 13 e7 f4 14 e8♕+ ♔d3 15 d5 f3 16 d6 f2 17 ♕b5+ ♔c2 18 d7 f1♕+ 19 ♕×f1 ♔c3 20 ♕d1 ♔b2 21 d8♕ ♔a2 22 ♕a5+ ♔b2 23 ♕aa1#

8…♔d7 9 ♔f7 e6

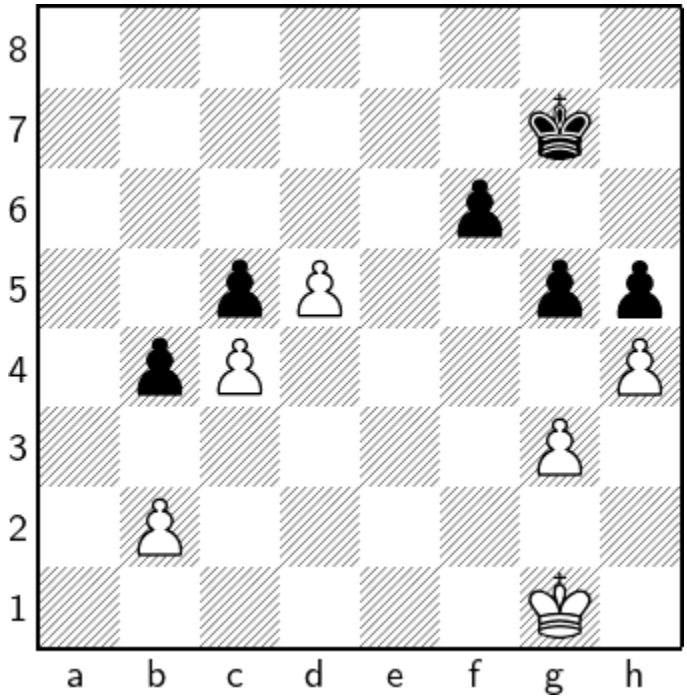
9…♔c6 10 ♔×e7 ♔c5 11 e6 d4 12 c×d4+ ♔×d4 13 ♔f6 ♔c3 14 e7 ♔d4 15 e8♕ ♔d3 16 ♕d7+ ♔c3 17 ♔e5 ♔b4 18 ♔d4 ♔b3 19 ♕e6+ ♔b2 20 ♕×f5 ♔a1 21 ♔c3 ♔a2 22 ♕c2+ ♔a1 23 ♕b2#

1.144 ?

1.144.1 ?



1 g4 h×g4 2 h5

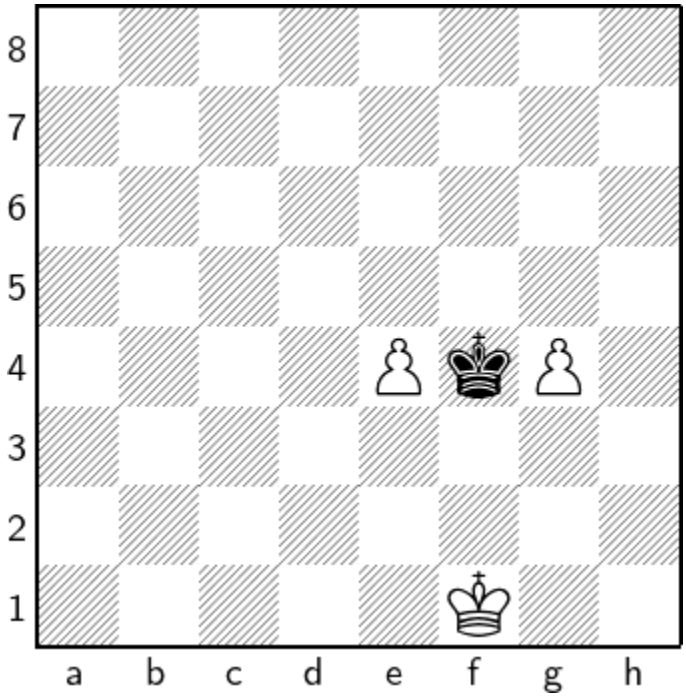


1 g4 h×g4

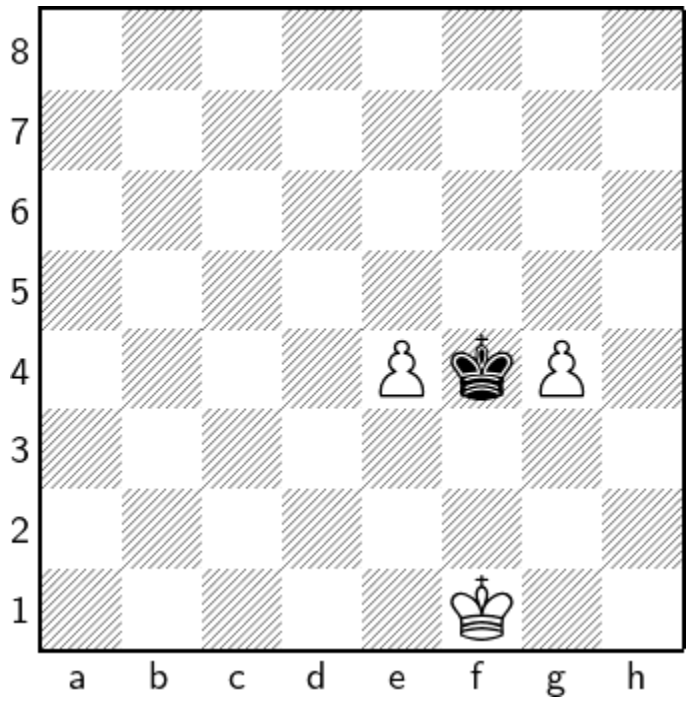
1…h×g4 2 h5

1.145 ?

1.145.1 ?



1 ♔f2 ♔×e4 2 ♔g3 ♔e5 3 ♔h4 ♔f6 4 ♔h5 ♔g7 5 ♔g5 ♔h7 6 ♔f6 ♔h6 7 g5+ ♔h7 8 ♔f7 ♔h8 9 ♔g6 ♔g8 10 ♔h6 ♔h8 11 g6

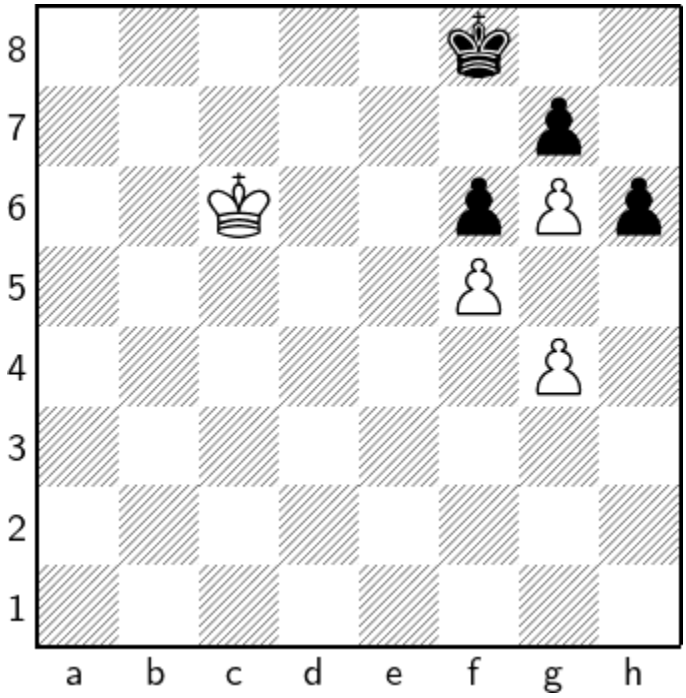


1 ♔f2 ♔×e4 2 ♔g3 ♔e5 3 ♔h4 ♔f6 4 ♔h5 ♔g7 5 ♔g5 ♔h7 6 ♔f6 ♔h6 7 g5+ ♔h7 8 ♔f7 ♔h8 9 ♔g6 ♔g8 10 ♔h6 ♔h8

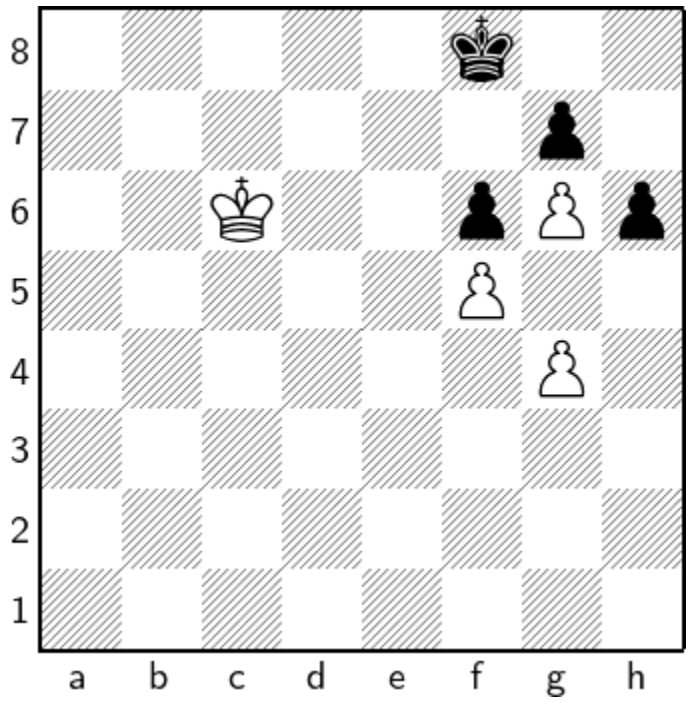
10…♔f7 11 g6+ ♔f8 12 ♔h7 ♔e7 13 g7 ♔d6 14 g8♕ ♔c5 15 ♔g6 ♔b5 16 ♔f6 ♔b4 17 ♔f5 ♔c5 18 ♔e5 ♔b5 19 ♕d5+ ♔a4 20 ♕b7 ♔a3 21 ♔d4 ♔a2 22 ♔c3 ♔a1 23 ♕b2#

1.146 ?

1.146.1 ?



1 ♔d7 ♔g8 2 ♔e8 ♔h8 3 ♔f8 h5 4 g5 f×g5 5 f6



1 ♔d7 ♔g8

1…h5 2 g×h5 ♔g8 3 ♔e8 ♔h8 4 ♔e7 ♔g8 5 h6 g×h6 6 ♔×f6 ♔f8 7 g7+ ♔e8 8 ♔e6 ♔d8 9 ♔d6 ♔c8 10 ♔c6 ♔b8 11 g8♕+ ♔a7 12 ♕f7+ ♔a6 13 ♕a2#

2 ♔e8 ♔h8

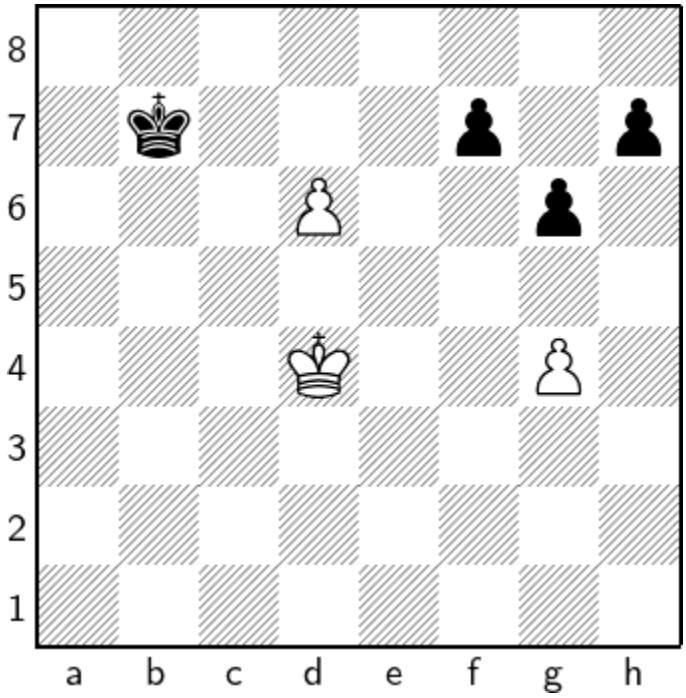
2…h5 3 g×h5 ♔h8 4 ♔e7 ♔g8 5 h6 g×h6 6 ♔×f6 ♔f8 7 g7+ ♔e8 8 ♔e6 ♔d8 9 ♔d6 ♔c8 10 ♔c6 ♔b8 11 g8♕+ ♔a7 12 ♕f7+ ♔a6 13 ♕a2#

3 ♔f8 h5 4 g5 f×g5

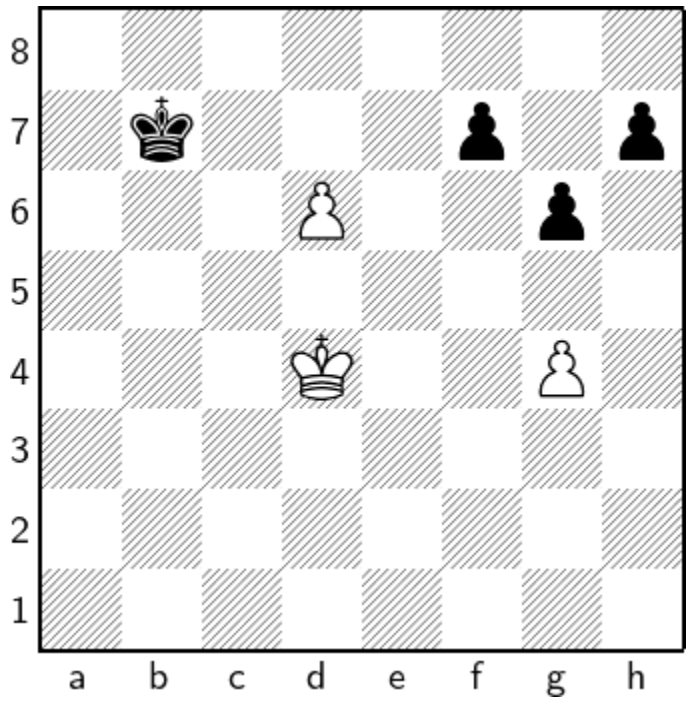
4…f×g5 5 f6

1.147 ?

1.147.1 ?



1 g5 ♔c6 2 ♔e5 ♔d7 3 ♔d5 ♔d8 4 ♔c6



1 g5 ♔c6

1…♔c8 2 ♔c5 ♔d7 3 ♔d5 ♔c8 4 ♔c6 ♔d8 5 d7 ♔e7 6 ♔c7 ♔e6 7 d8♕ ♔e5 8 ♕f6+ ♔e4 9 ♔c6 ♔d3 10 ♔d5 ♔e3 11 ♕×f7 h6 12 g×h6 g5 13 h7 ♔d2 14 h8♕ ♔c2 15 ♕f2+ ♔b3 16 ♕fb2+ ♔a4 17 ♕a8#

2 ♔e5 ♔d7

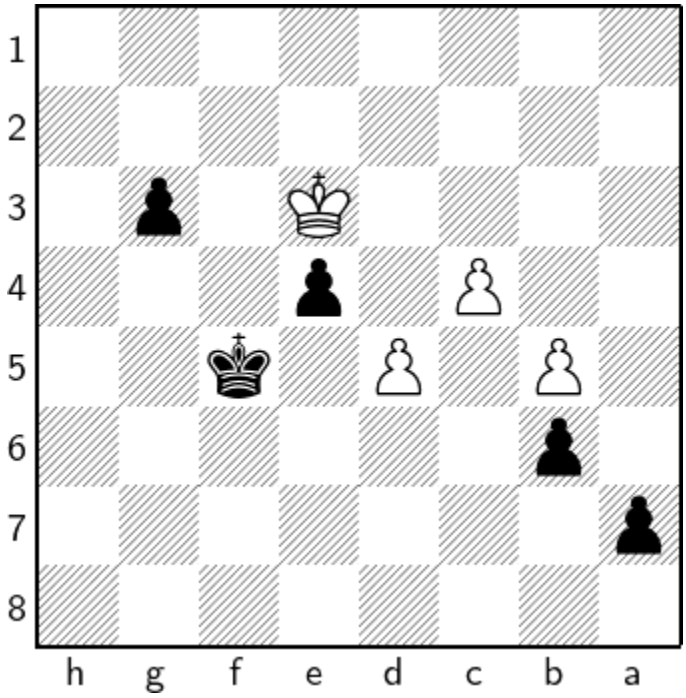
2…♔b7 3 ♔f6 ♔c6 4 ♔e7 ♔c5 5 d7 ♔d4 6 d8♕+ ♔e3 7 ♔×f7 ♔f2 8 ♕d3 ♔g2 9 ♕e3 ♔h2 10 ♕f3 ♔g1 11 ♕e2 h6 12 g×h6 g5 13 h7 g4 14 h8♕ g3 15 ♕a1#

3 ♔d5 ♔d8

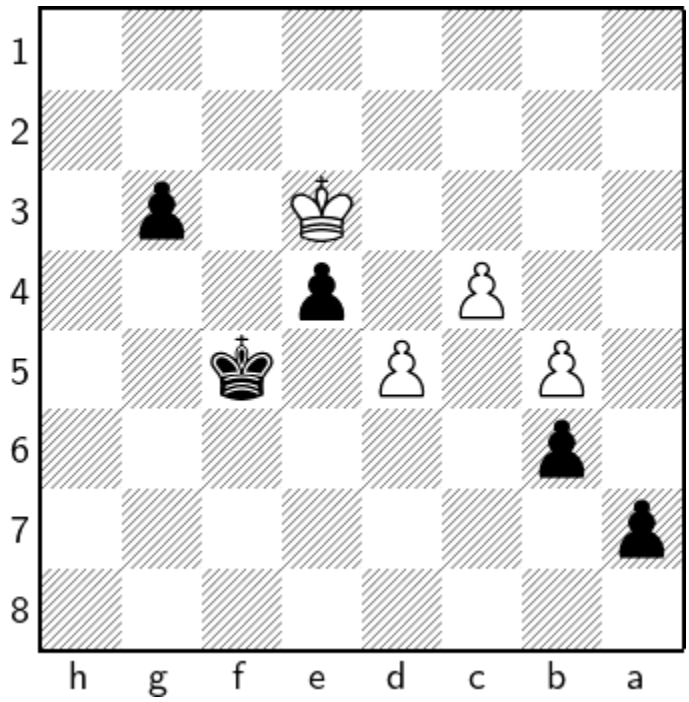
3…♔e8 4 ♔c6 ♔d8 5 d7 ♔e7 6 ♔c7 ♔e6 7 d8♕ ♔e5 8 ♕f6+ ♔e4 9 ♔c6 ♔d3 10 ♔c5 ♔e3 11 ♔d5 h6 12 g×h6 g5 13 h7 g4 14 h8♕ g3 15 ♕h1 g2 16 ♕e1+ ♔d3 17 ♕fc3#

1.148 ?

1.148.1 ?



1…♔g4 2 d6 g2 3 ♔f2 ♔h3 4 d7 e3+ 5 ♔f3 g1♕ 6 d8♕ ♕f2+ 7 ♔e4 e2



1…♔g4 2 d6 g2 3 ♔f2 ♔h3 4 d7 e3+ 5 ♔f3

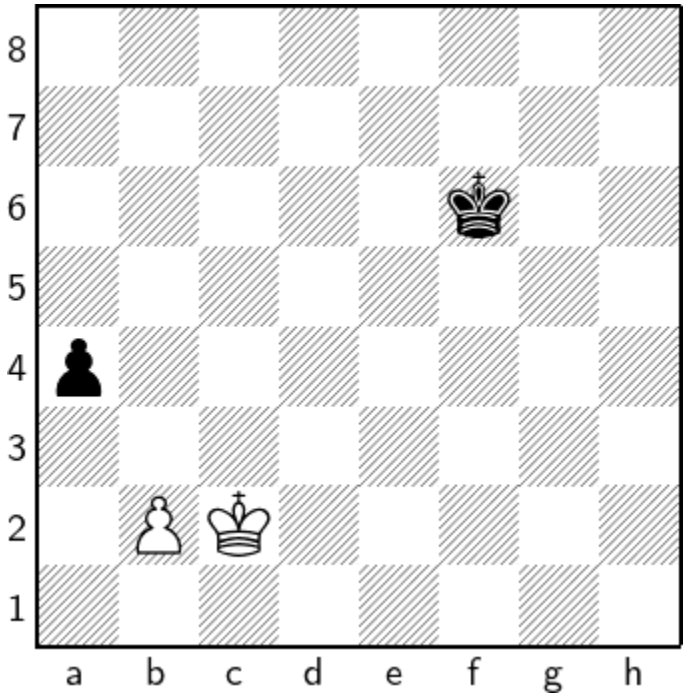
5 ♔×e3 g1♕+

5…g1♕ 6 d8♕ ♕f2+

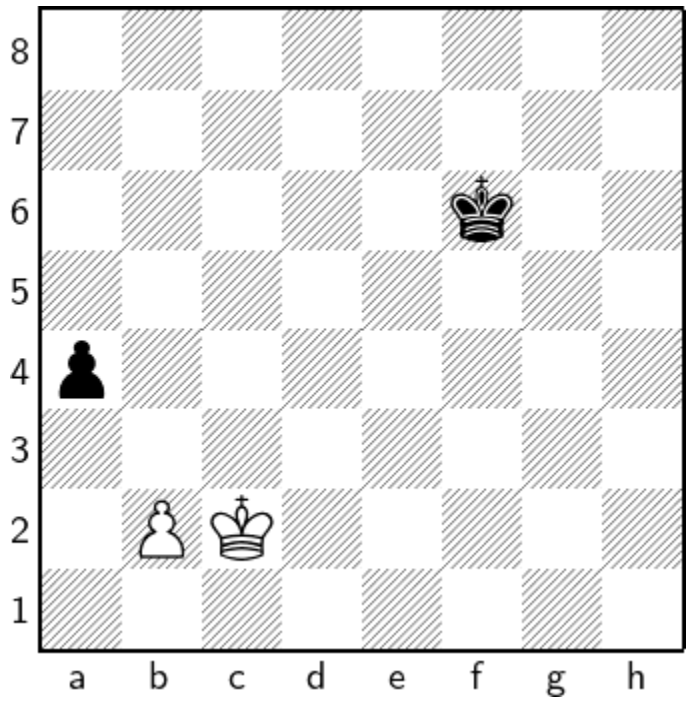
6…♕g3+ 7 ♔e4 e2 8 ♕h8+ ♕h4+ 9 ♕×h4+ ♔×h4 10 c5 e1♕+ 11 ♔d5 b×c5 12 ♔×c5 ♕c3+ 13 ♔d5 ♔g5 14 b6 a×b6 15 ♔e4 ♔g4 16 ♔d5 ♔f5 17 ♔d6 ♕c5+ 18 ♔d7 ♔f6 19 ♔d8 ♔e6 20 ♔e8 ♕e7#

1.149 ?

1.149.1 ?



1 ♔b1 a3 2 b3 ♔e5 3 ♔a2 ♔d5 4 ♔×a3 ♔c6 5 ♔a4



1 ♔b1 a3

1…♔e5 2 ♔a2 ♔d4 3 ♔a3 ♔c5 4 ♔×a4 ♔b6 5 ♔b4 ♔c7 6 ♔c5 ♔b7 7 ♔b5 ♔c7 8 ♔a6 ♔b8 9 b4 ♔a8 10 b5 ♔b8 11 ♔b6 ♔c8 12 ♔a7 ♔d8 13 b6 ♔e7 14 b7 ♔e6 15 ♔b6 ♔d5 16 b8♕ ♔e4 17 ♔c5 ♔e3 18 ♕e5+ ♔f3 19 ♔d4 ♔f2 20 ♕f4+ ♔g1 21 ♔e3 ♔g2 22 ♕g4+ ♔f1 23 ♕g7 ♔e1 24 ♕a1#

2 b3 ♔e5

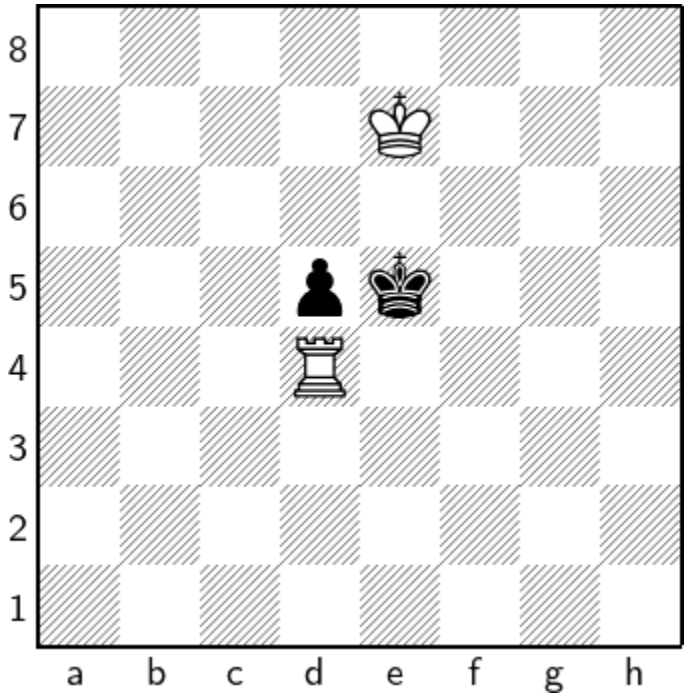
2…♔e7 3 ♔a2 ♔d6 4 ♔×a3 ♔c7 5 ♔a4 ♔b6 6 ♔b4 ♔c7 7 ♔b5 ♔b7 8 b4 ♔a7 9 ♔c6 ♔a6 10 b5+ ♔a7 11 ♔c7 ♔a8 12 ♔b6 ♔b8 13 ♔a6 ♔c7 14 b6+ ♔c8 15 ♔a7 ♔d7 16 b7 ♔e6 17 b8♕ ♔f5 18 ♕g3 ♔e4 19 ♔b6 ♔f5 20 ♕h4 ♔g6 21 ♔c6 ♔f5 22 ♔d5 ♔g6 23 ♔e6 ♔g7 24 ♕g4+ ♔h8 25 ♔f7 ♔h7 26 ♕h3#

3 ♔a2 ♔d5

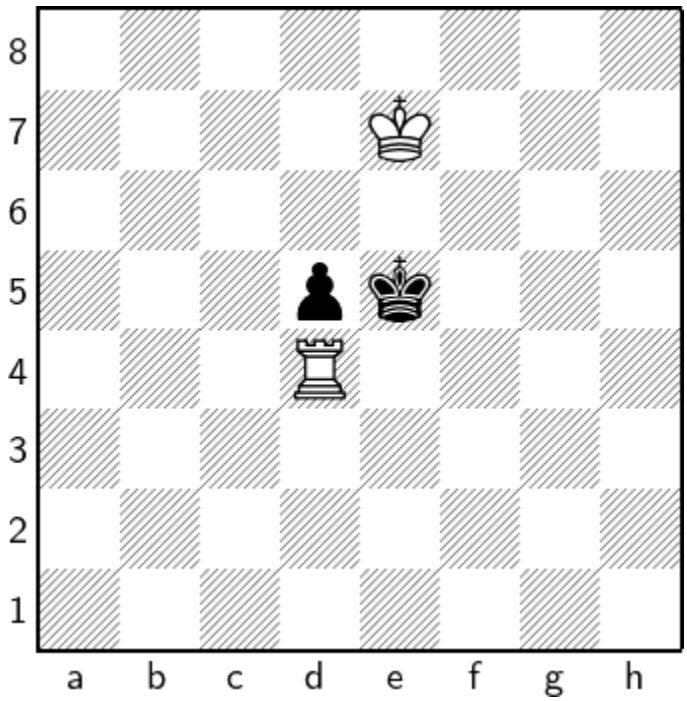
3…♔d4 4 ♔×a3 ♔c5 5 ♔a4 ♔b6 6 ♔b4 ♔c7 7 ♔b5 ♔b7 8 b4 ♔a7 9 ♔c6 ♔a6 10 b5+ ♔a7 11 ♔c7 ♔a8 12 ♔b6 ♔b8 13 ♔a6 ♔c7 14 b6+ ♔c8 15 ♔a7 ♔d7 16 b7 ♔e6 17 ♔b6 ♔d5 18 b8♕ ♔e4 19 ♔c5 ♔e3 20 ♔d5 ♔d3 21 ♕g3+ ♔d2 22 ♔c4 ♔e2 23 ♔d4 ♔d1 24 ♕h2 ♔c1 25 ♔c3 ♔b1 26 ♕b2#

1.150 ?

1.150.1 ?

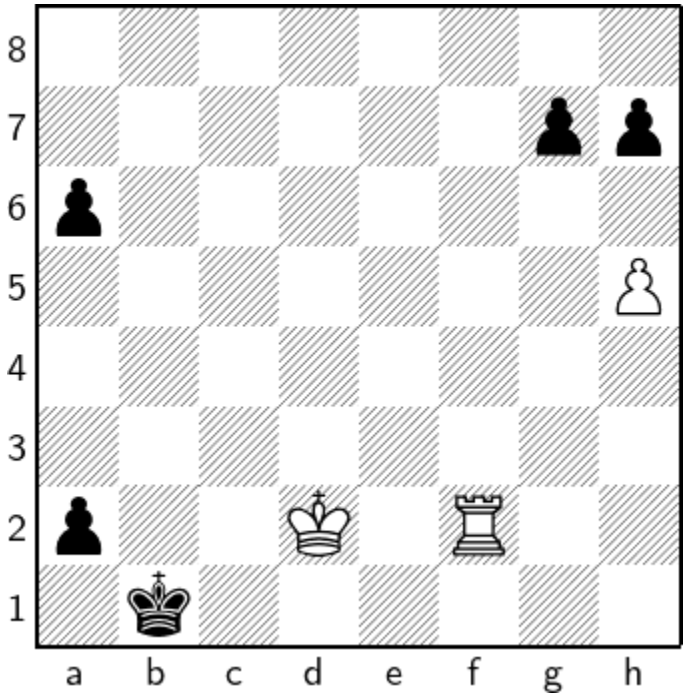


1 ♖d2 d4 2 ♖d1 ♔d5 3 ♔d7 ♔e4 4 ♔d6

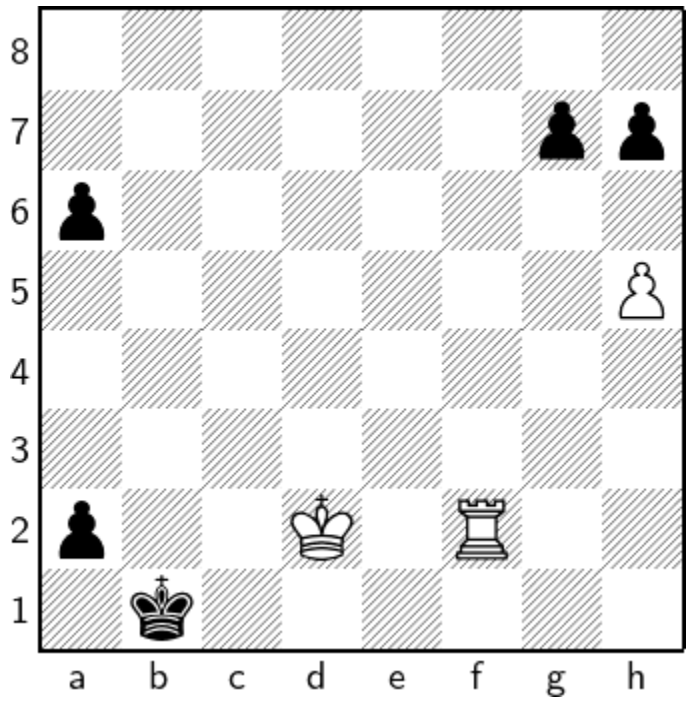


1.151 ?

1.151.1 ?



1 h6 g×h6 2 ♔c3 a1♕+ 3 ♔b3

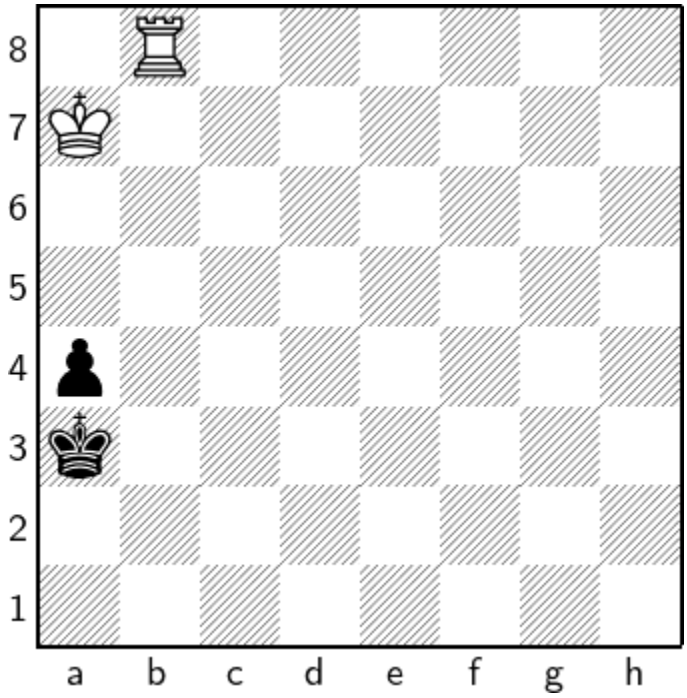


1 h6 g×h6

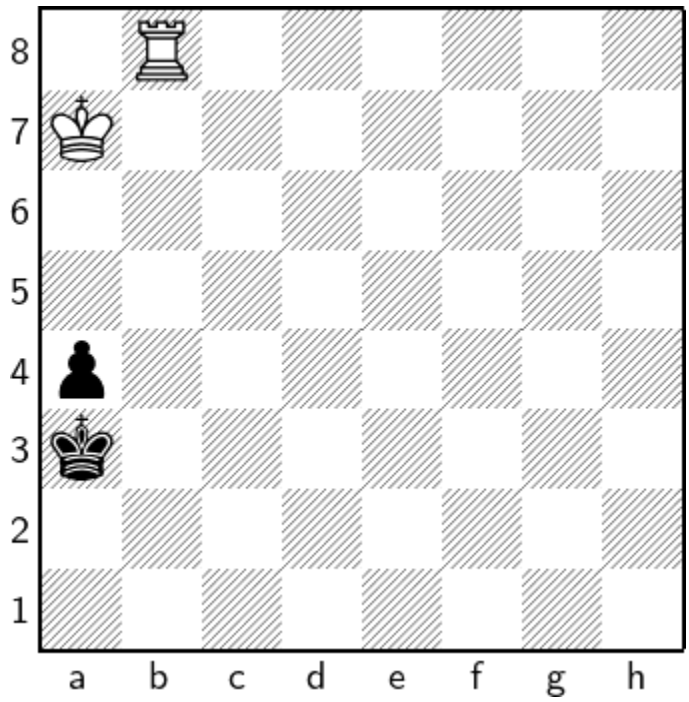
1…g6 2 ♔c3 a1♕+ 3 ♔b3 ♔c1 4 ♖f1+ ♔d2 5 ♖×a1 ♔e2 6 ♖×a6 ♔f3 7 ♖×g6 h×g6 8 h7 g5 9 ♔c4 g4 10 h8♕ g3 11 ♔d4 g2 12 ♕h3+ ♔f4 13 ♕×g2 ♔f5 14 ♕c6 ♔g4 15 ♕e4+ ♔h5 16 ♔e5 ♔h6 17 ♕g2 ♔h7 18 ♔f6 ♔h8 19 ♕g7#

1.152 ?

1.152.1 ?



1 ♔a6 ♔a2 2 ♔a5 a3 3 ♔a4 ♔a1 4 ♔b3 a2 5 ♖h8 ♔b1 6 ♖h1#

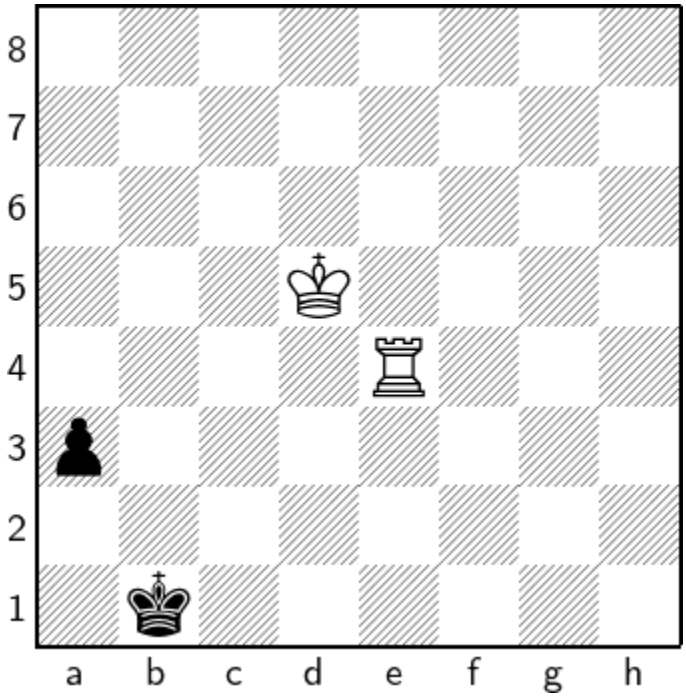


1 ♔a6 ♔a2 2 ♔a5 a3 3 ♔a4 ♔a1 4 ♔b3 a2

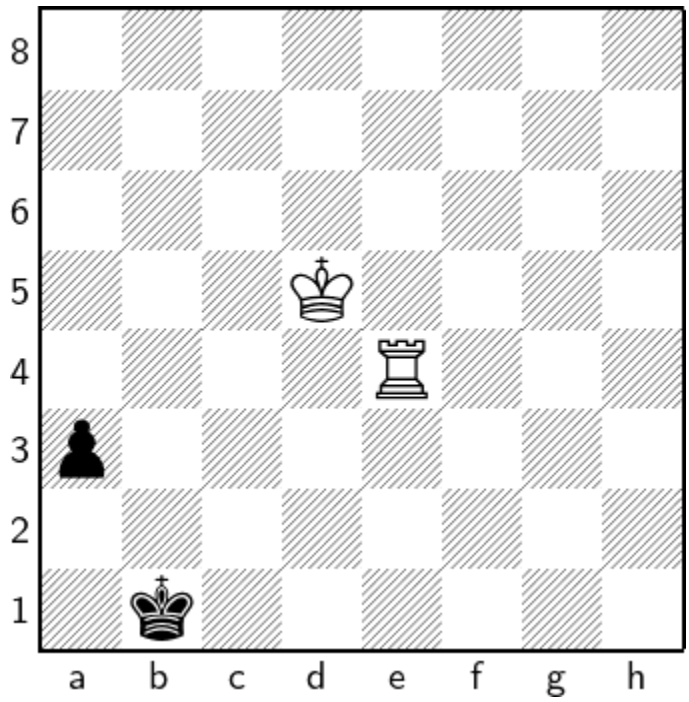
4…♔b1 5 ♖d8 ♔c1 6 ♔×a3 ♔c2 7 ♔b4 ♔b2 8 ♖c8 ♔a1 9 ♖c2 ♔b1 10 ♔b3 ♔a1 11 ♖c1#

1.153 ?

1.153.1 ?



1 ♔c4 a2 2 ♔b3 a1♘+ 3 ♔c3 ♘c2 4 ♖e2 ♘a3 5 ♔b3 ♘b5 6 ♖e1#



1 ♔c4 a2 2 ♔b3 a1♘+

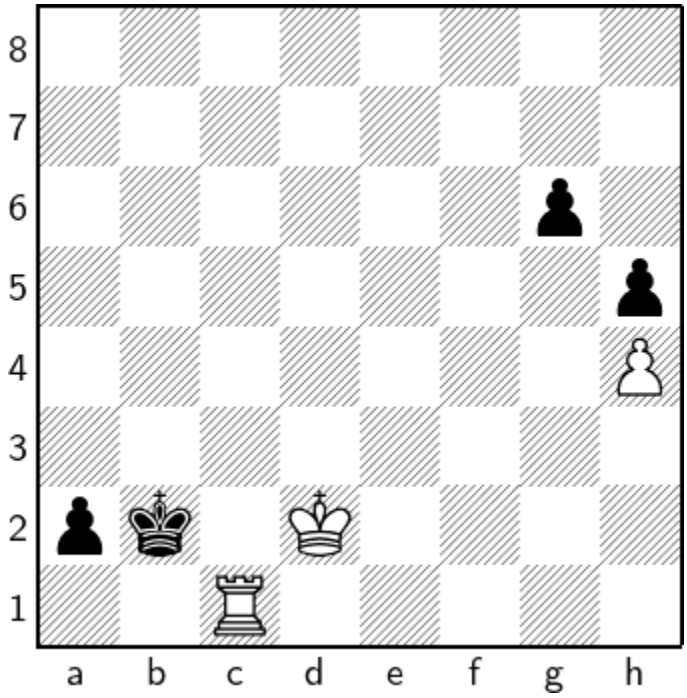
2…♔c1 3 ♔×a2 ♔d2 4 ♔b2 ♔d3 5 ♖h4 ♔e3 6 ♔c3 ♔f3 7 ♔d2 ♔g3 8 ♖e4 ♔f3 9 ♖d4 ♔g2 10 ♔e2 ♔g3 11 ♖a4 ♔g2 12 ♖a3 ♔g1 13 ♔f3 ♔h1 14 ♔g3 ♔g1 15 ♖a1#

3 ♔c3 ♘c2 4 ♖e2 ♘a3 5 ♔b3 ♘b5

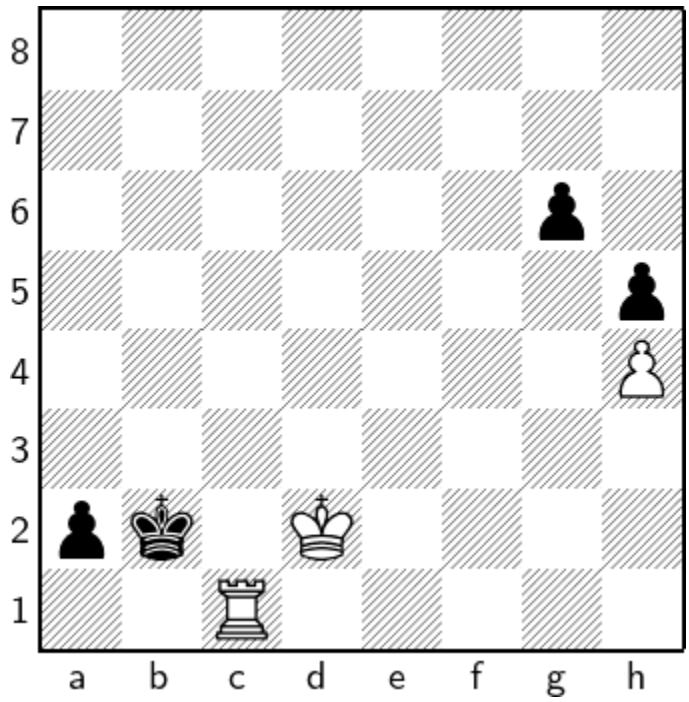
5…♔c1 6 ♔×a3 ♔d1 7 ♖a2 ♔c1 8 ♔b3 ♔d1 9 ♔c3 ♔e1 10 ♔d3 ♔f1 11 ♔e3 ♔g1 12 ♔f3 ♔h1 13 ♔g3 ♔g1 14 ♖a1#

1.154 ?

1.154.1 ?



1 ♖a1 ♔×a1 2 ♔c2 g5 3 h×g5 h4 4 g6 h3 5 g7 h2 6 g8♕ h1♕ 7 ♕g7#

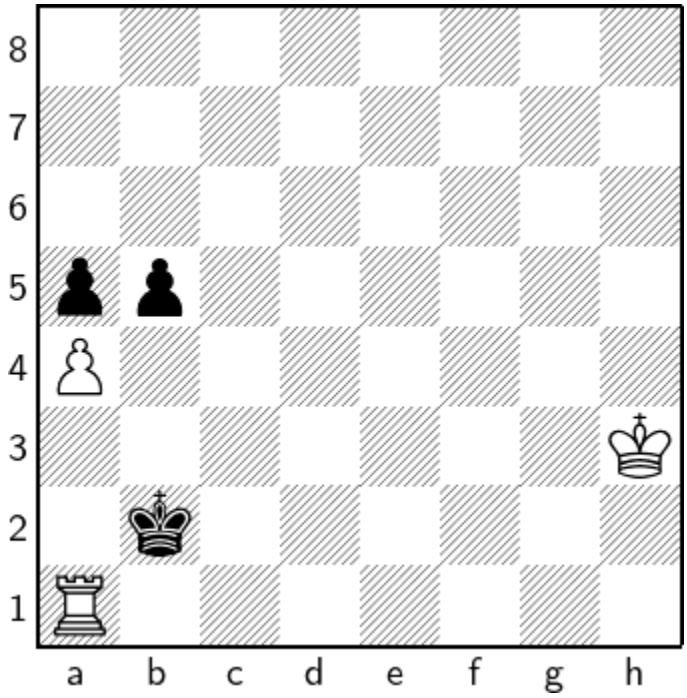


1 ♖a1 ♔×a1

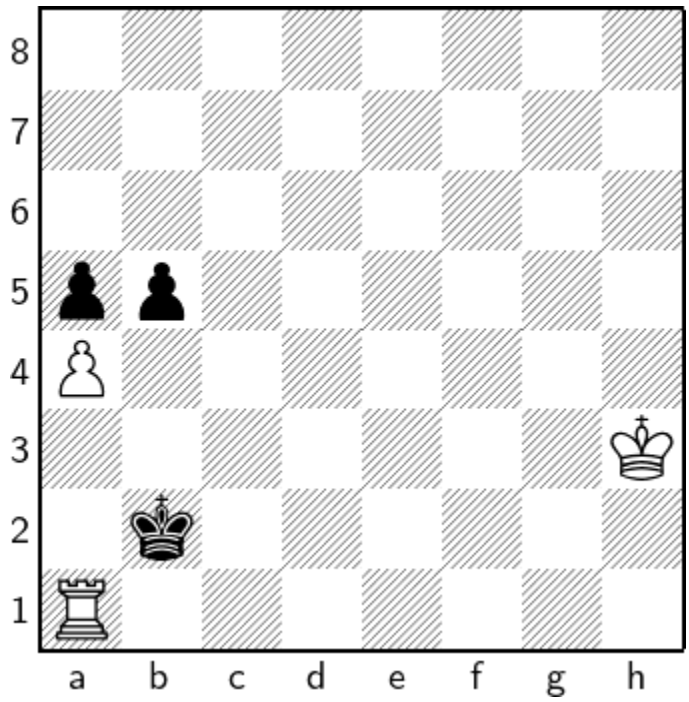
1…♔b3 2 ♔c1 ♔a3 3 ♔c2 ♔a4 4 ♖×a2+ ♔b5 5 ♔d3 ♔c5 6 ♖a6 ♔b5 7 ♖×g6 ♔c5 8 ♖g5+ ♔d6 9 ♔e4 ♔e7 10 ♔d5 ♔f7 11 ♔e5 ♔e7 12 ♖g7+ ♔f8 13 ♖c7 ♔e8 14 ♔e6 ♔f8 15 ♖a7 ♔g8 16 ♔f6 ♔h8 17 ♔g6 ♔g8 18 ♖a8#

1.155 ?

1.155.1 ?



1 ♖a3 ♔×a3 2 a×b5 a4 3 b6

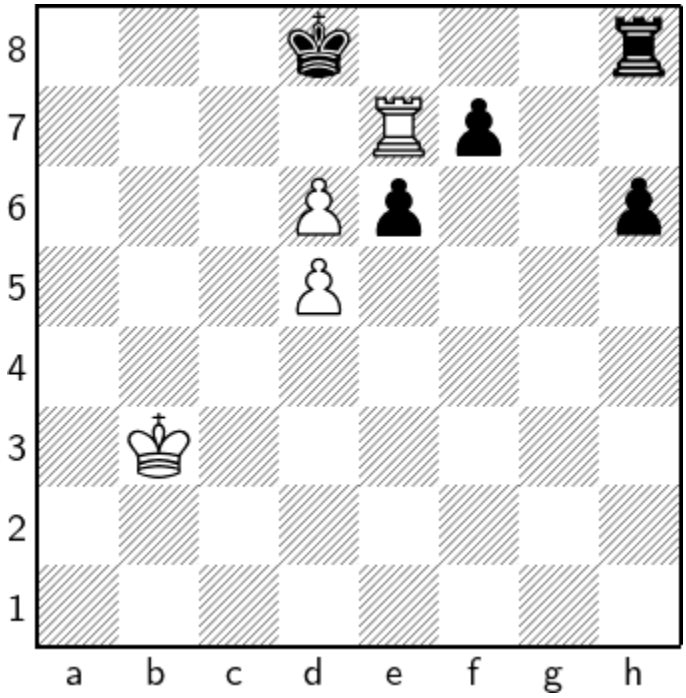


1 ♖a3 ♔×a3

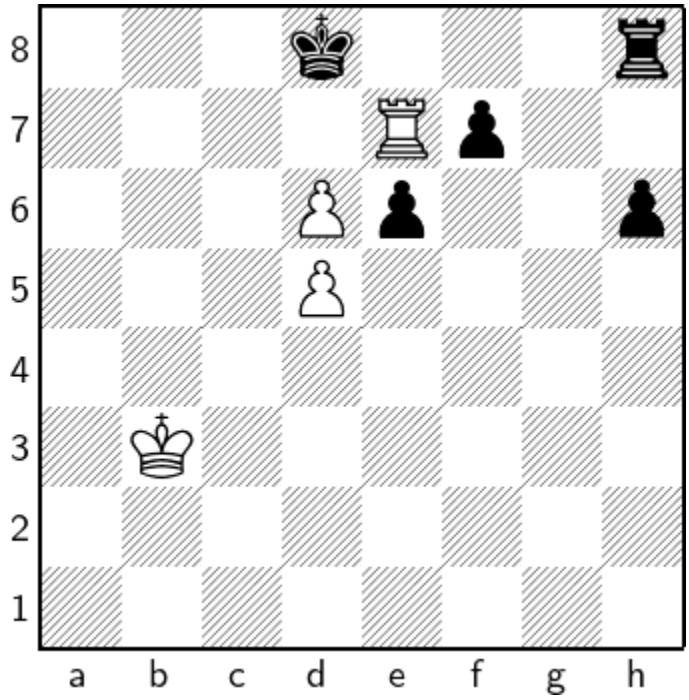
1…b4 2 ♖g3 b3 3 ♖g5 ♔a3 4 ♖×a5 ♔b4 5 ♖a7 b2 6 ♖b7+ ♔a3 7 a5 ♔a2 8 a6 b1♕ 9 ♖×b1 ♔×b1 10 a7 ♔b2 11 a8♕ ♔c3 12 ♕a4 ♔b2 13 ♔g3 ♔c3 14 ♔f3 ♔b2 15 ♔e3 ♔c3 16 ♕b5 ♔c2 17 ♕b4 ♔c1 18 ♔d3 ♔d1 19 ♕b1#

1.156 ?

1.156.1 ?



1 ♖a7 ♖e8 2 d7 ♖e7 3 d6 ♖×d7 4 ♖a8#

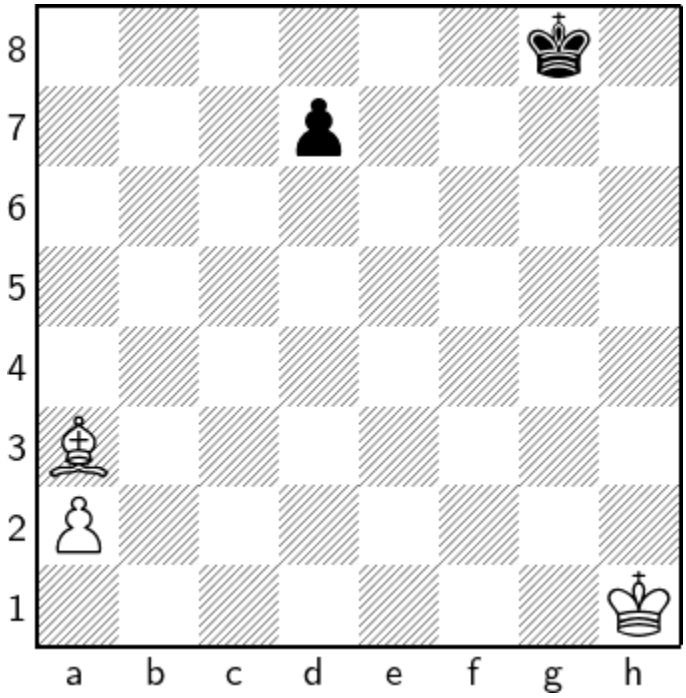


1 ♖a7 ♖e8 2 d7 ♖e7 3 d6 ♖×d7

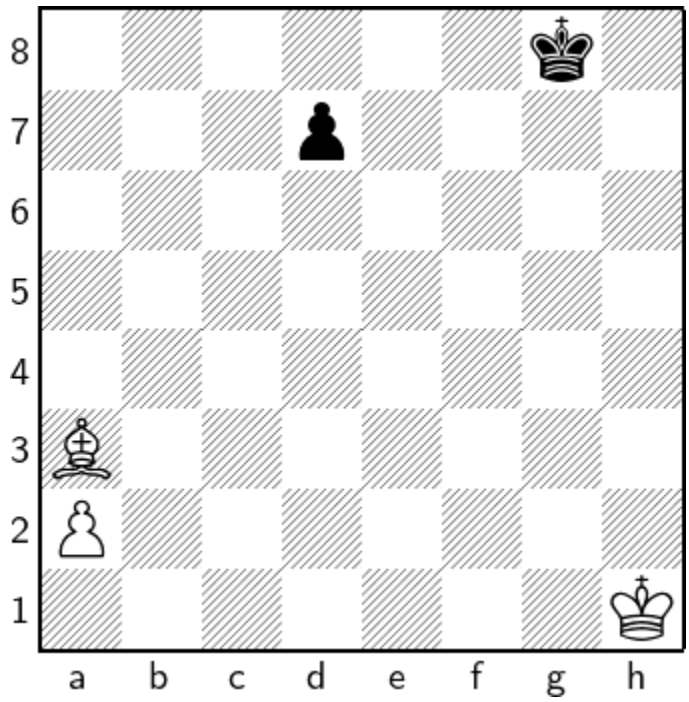
3…h5 4 d×e7+ ♔×e7 5 ♔c4 h4 6 ♔c5 h3 7 ♔c6 h2 8 ♔c7 ♔f6 9 d8♕+ ♔f5 10 ♕d3+ ♔f6 11 ♕f3+ ♔g6 12 ♕g4+ ♔h7 13 ♖a1 f5 14 ♕g2 f4 15 ♖h1 f3 16 ♖×h2#

1.157 ?

1.157.1 ?



1 ♗b4 ♔f7 2 a4 ♔e8 3 a5 ♔d8 4 ♗d6 ♔c8 5 a6



1 ♗b4 ♔f7 2 a4 ♔e8

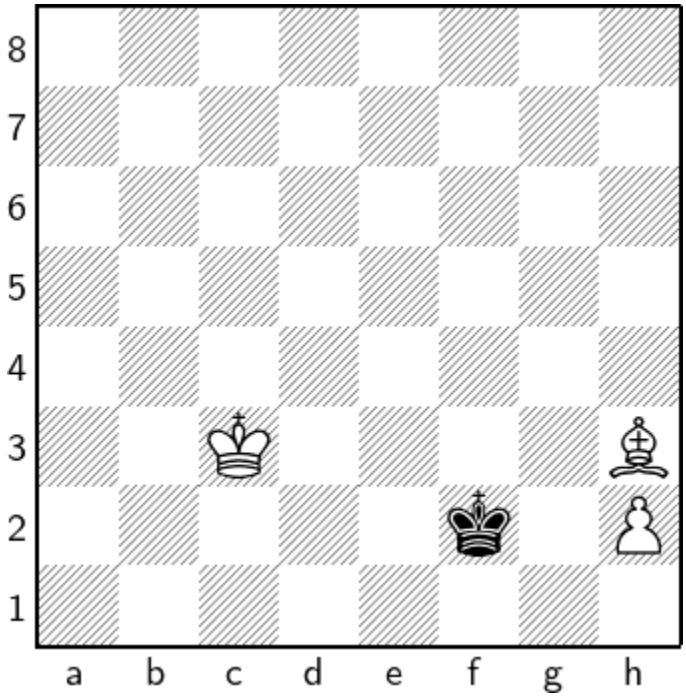
2…♔e6 3 a5 ♔d5 4 a6 ♔c6 5 ♗a5 d5 6 ♔g2 d4 7 ♔f3 d3 8 ♔e3 d2 9 ♔×d2 ♔b5 10 a7 ♔×a5 11 a8♕+ ♔b6 12 ♕d8+ ♔c6 13 ♔c3 ♔b7 14 ♔d3 ♔a6 15 ♕d7 ♔a5 16 ♕b7 ♔a4 17 ♔c4 ♔a3 18 ♕b3#

3 a5 ♔d8 4 ♗d6 ♔c8

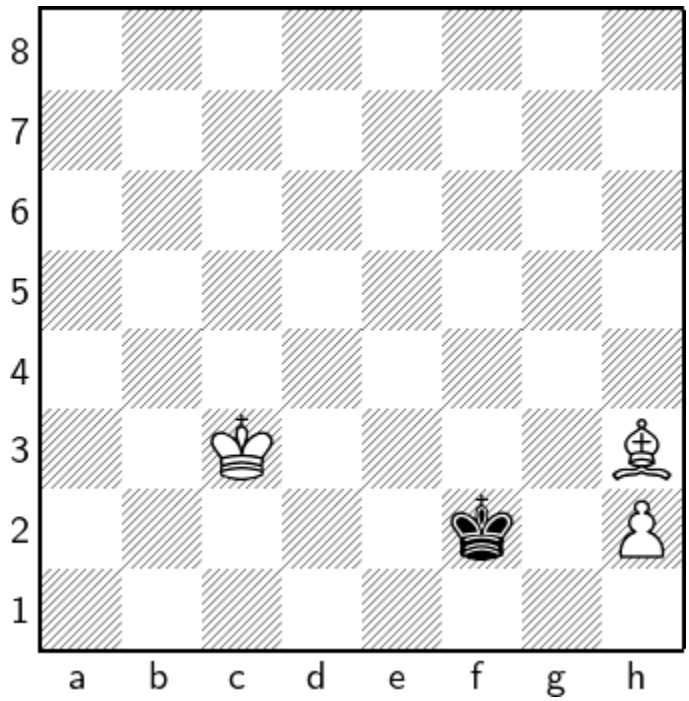
4…♔e8 5 a6 ♔f7 6 a7 ♔e6 7 ♗a3 d5 8 a8♕ d4 9 ♕c6+ ♔f7 10 ♗c1 d3 11 ♗g5 d2 12 ♕f6+ ♔g8 13 ♗×d2 ♔h7 14 ♕f7+ ♔h8 15 ♗c3#

1.158 ?

1.158.1 ?

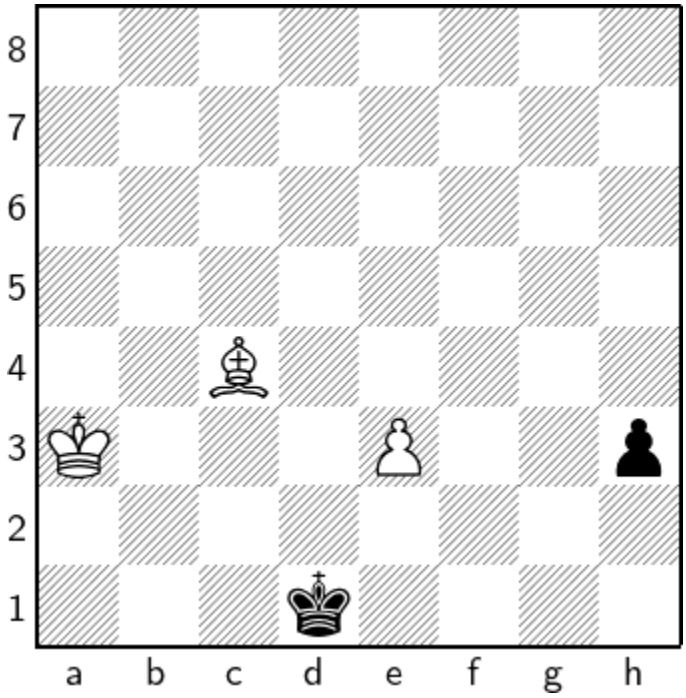


1 ♗d7 ♔e3 2 h4 ♔e4 3 h5 ♔e5 4 h6 ♔f6 5 ♗e8

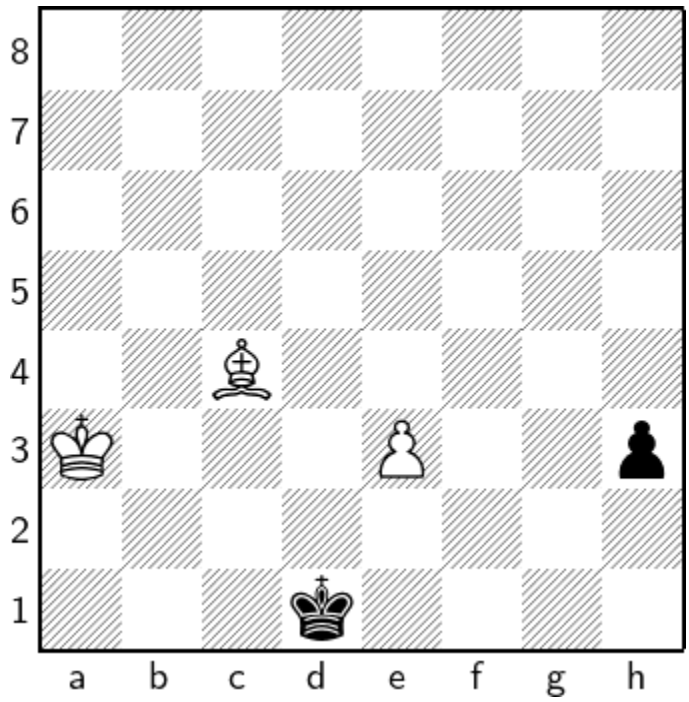


1.159 ?

1.159.1 ?



1 ♗d5 ♔e2 2 e4 ♔e3 3 e5 ♔d4 4 e6 ♔×d5 5 e7 h2 6 e8♕ h1♕ 7 ♕a8+



1 ♗d5 ♔e2

1…♔d2 2 e4 ♔e3 3 e5 ♔d4 4 e6 ♔×d5 5 e7 ♔e4 6 e8♕+ ♔f4 7 ♔b4 ♔g3 8 ♕g6+ ♔f2 9 ♕h5 ♔g3 10 ♔c3 h2 11 ♔d4 ♔f4 12 ♕×h2+ ♔f5 13 ♕e5+ ♔g6 14 ♔e4 ♔h7 15 ♔f5 ♔g8 16 ♔f6 ♔h8 17 ♔g6+ ♔g8 18 ♕g7#

2 e4 ♔e3 3 e5 ♔d4 4 e6 ♔×d5 5 e7 h2

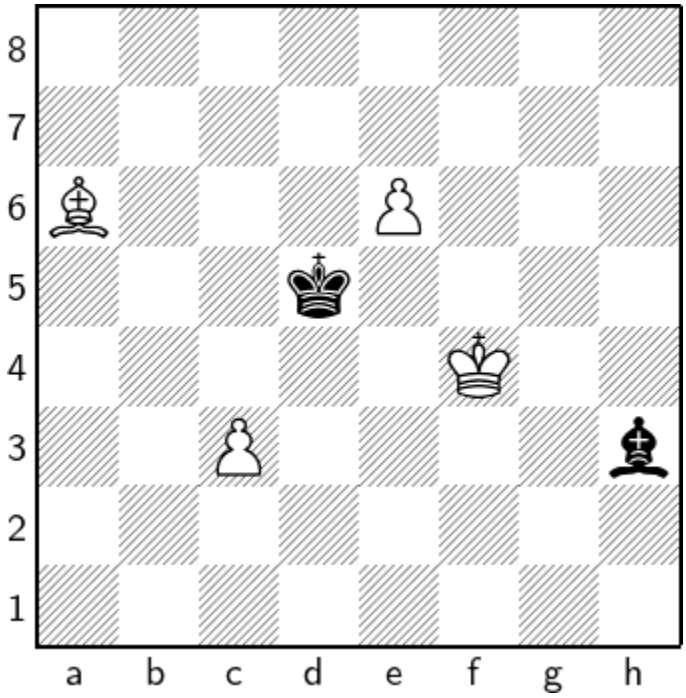
5…♔e4 6 e8♕+ ♔f3 7 ♔b4 h2 8 ♕c6+ ♔g3 9 ♕h1 ♔h3 10 ♔c3 ♔g4 11 ♔d4 ♔f4 12 ♕×h2+ ♔f5 13 ♕e5+ ♔g6 14 ♔e4 ♔h7 15 ♔f5 ♔g8 16 ♔f6 ♔h8 17 ♔g6+ ♔g8 18 ♕g7#

6 e8♕ h1♕

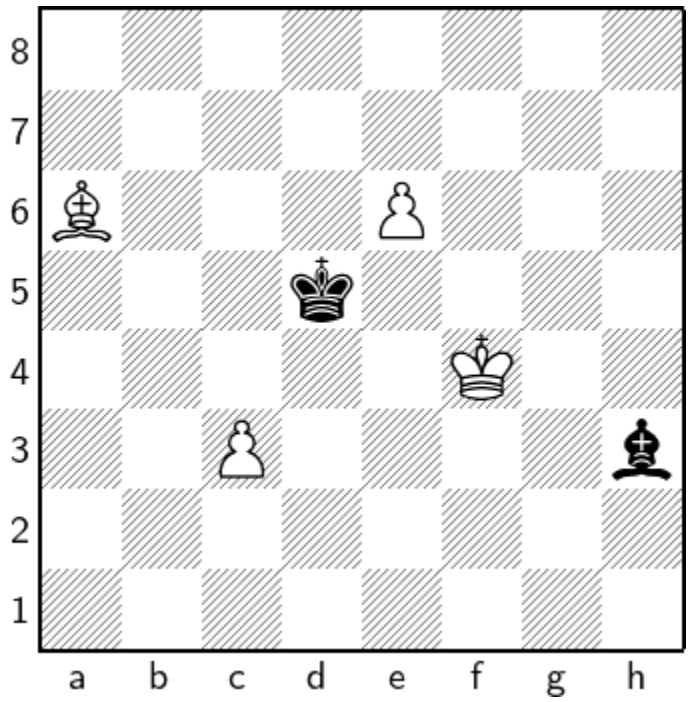
6…♔d4 7 ♕h5 ♔d3 8 ♕×h2 ♔e4 9 ♕h5 ♔f4 10 ♔b4 ♔e3 11 ♔c3 ♔e4 12 ♕g5 ♔f3 13 ♔d3 ♔f2 14 ♕g4 ♔f1 15 ♔e3 ♔e1 16 ♕g1#

1.160 ?

1.160.1 ?



1 ♗c8 ♗f1 2 e7 ♗b5 3 c4+ ♔×c4 4 ♗a6



1 ♗c8 ♗f1

1…♗×e6 2 ♗×e6+ ♔×e6 3 ♔e4 ♔d6 4 ♔d4 ♔c6 5 ♔c4 ♔b6 6 ♔d5 ♔c7 7 ♔c5 ♔b7 8 ♔d6 ♔c8 9 c4 ♔b7 10 c5 ♔c8 11 ♔c6 ♔d8 12 ♔b7 ♔e8 13 c6 ♔e7 14 c7 ♔f6 15 ♔c6 ♔e5 16 c8♕ ♔d4 17 ♕g4+ ♔e3 18 ♔d5 ♔d2 19 ♔c4 ♔e3 20 ♔c3 ♔f2 21 ♔d2 ♔f1 22 ♔e3 ♔e1 23 ♕g1#

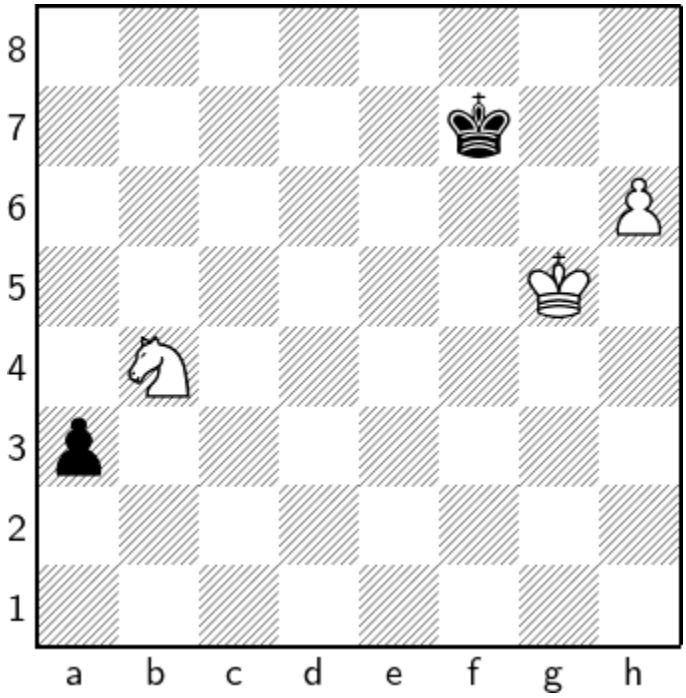
2 e7 ♗b5 3 c4+ ♔×c4

a) 3…♗×c4 4 e8♕

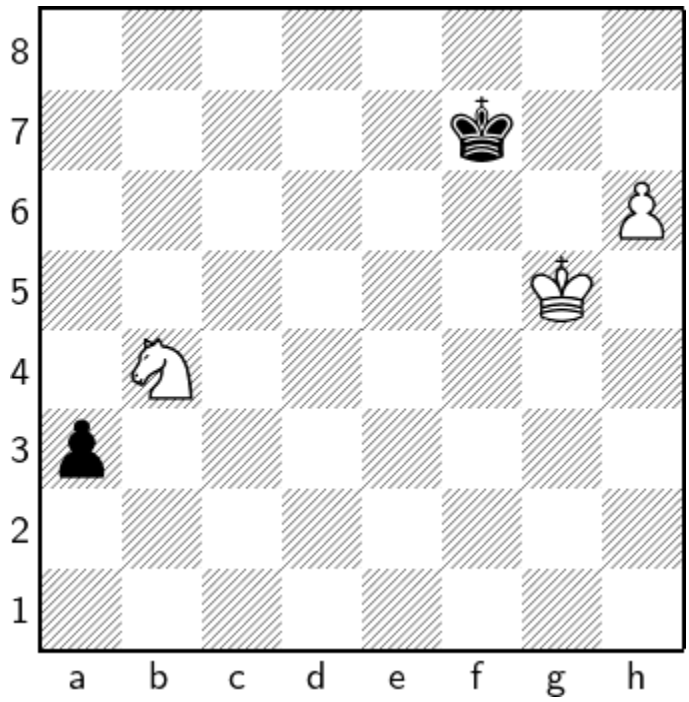
b) 3…♔×c4 4 ♗a6

1.161 ?

1.161.1 ?



1 ♘a2 ♔f8 2 ♔f6 ♔g8 3 ♔g6 ♔h8 4 ♘b4 ♔g8 5 h7+ ♔h8 6 ♘c6 a2 7 ♘e5 a1♕ 8 ♘f7#



1 ♘a2 ♔f8 2 ♔f6 ♔g8 3 ♔g6 ♔h8 4 ♘b4 ♔g8

4…a2 5 ♘×a2 ♔g8 6 ♘c3 ♔h8 7 ♘e4 ♔g8 8 ♘g5 ♔f8 9 h7 ♔e7 10 h8♕ ♔d6 11 ♕c3 ♔d5 12 ♔f6 ♔d6 13 ♕c4 ♔d7 14 ♘f7 ♔e8 15 ♕c8#

5 h7+ ♔h8

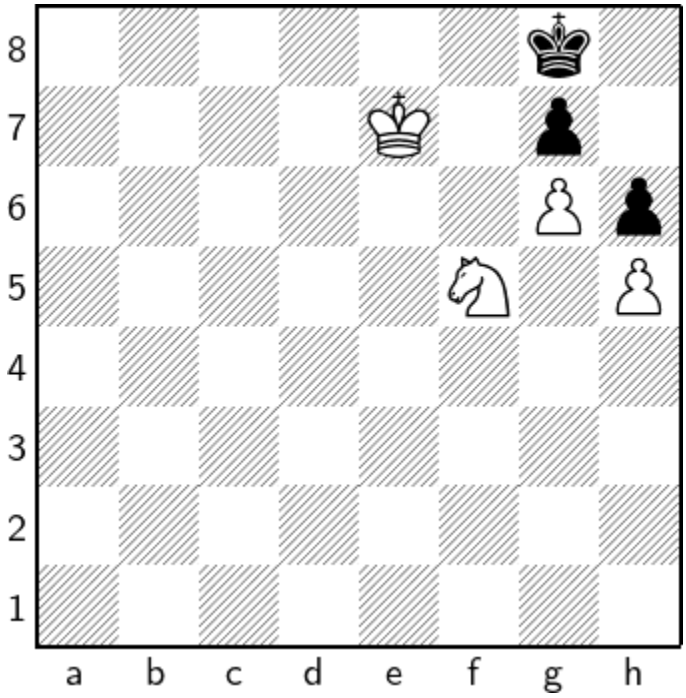
5…♔f8 6 h8♕+ ♔e7 7 ♕d4 a2 8 ♕d5 a1♕ 9 ♘c6+ ♔f8 10 ♕f7#

6 ♘c6

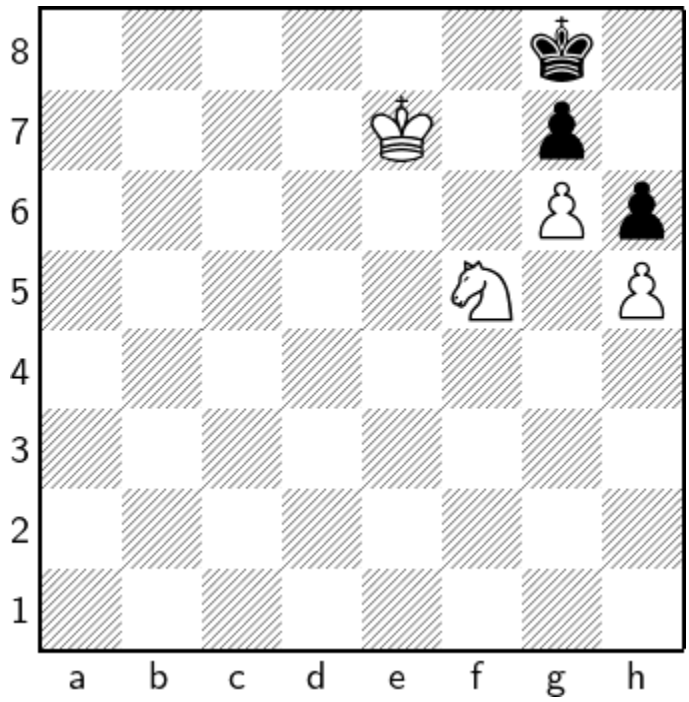
6 ♘d3 a2 7 ♘e5 a1♕ 8 ♘f7#

1.162 ?

1.162.1 ?



1 ♘d6 ♔h8 2 ♘e4 ♔g8 3 ♔e8 ♔h8 4 ♘f6 g×f6 5 ♔f7



1 ♘d6 ♔h8 2 ♘e4

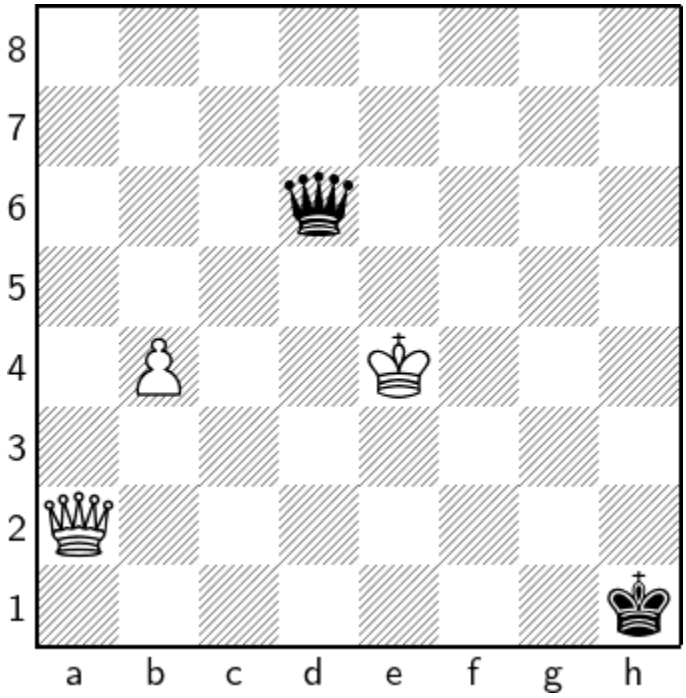
2 ♔e8 ♔g8 3 ♘e4 ♔h8 4 ♘f6 g×f6 5 ♔f7 f5 6 g7+ ♔h7 7 g8♕#

2…♔g8 3 ♔e8 ♔h8 4 ♘f6 g×f6

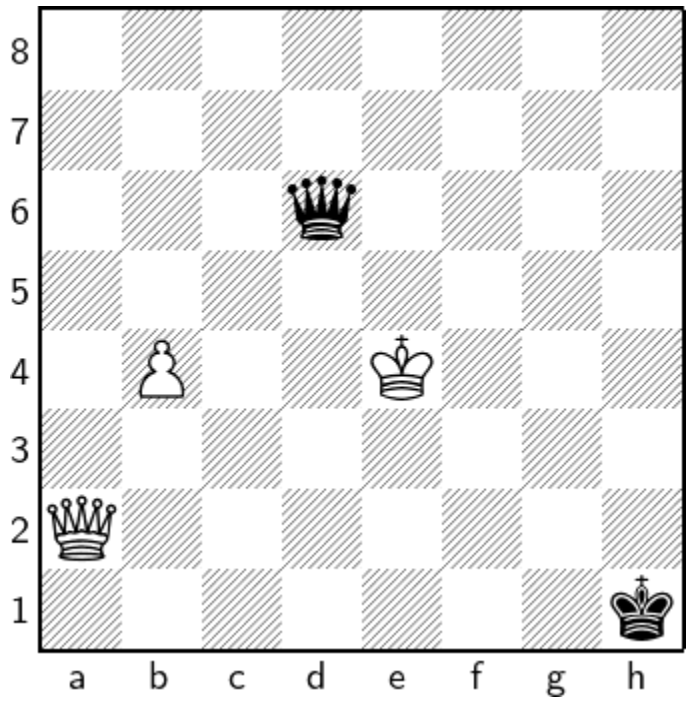
4…g×f6 5 ♔f7

1.163 ?

1.163.1 ?



1 ♕d5 ♕×b4+ 2 ♔f3 ♔h2 3 ♕h5+ ♔g1 4 ♕g5+ ♔f1 5 ♕g2+ ♔e1 6 ♕e2#



1 ♕d5 ♕×b4+

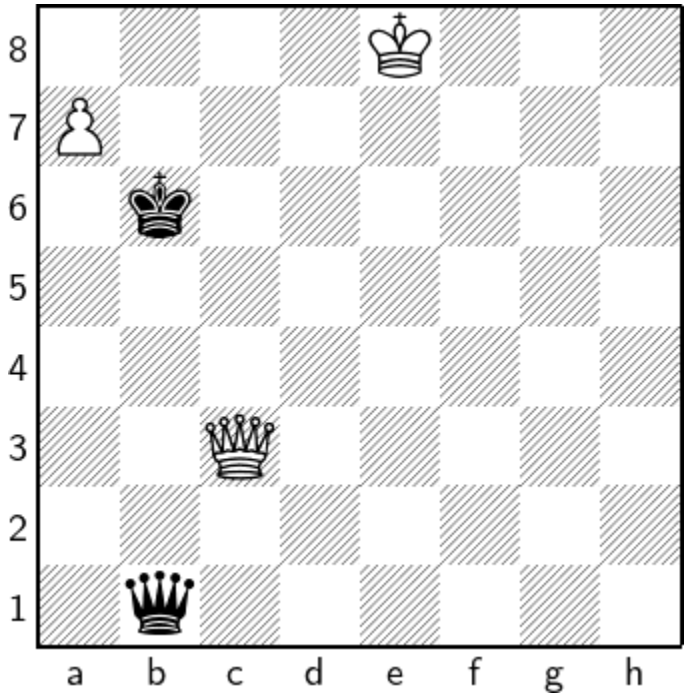
1…♕g6+ 2 ♔f4+ ♔h2 3 ♕e5 ♕d3 4 b5 ♕d1 5 ♔g5+ ♔g1 6 ♕g3+ ♔f1 7 ♕f4+ ♔e1 8 ♕h4+ ♔f1 9 ♕h1+ ♔e2 10 ♕×d1+ ♔×d1 11 b6 ♔c2 12 b7 ♔d3 13 b8♕ ♔c4 14 ♕b6 ♔d5 15 ♕b5+ ♔e4 16 ♔g4 ♔d4 17 ♔f4 ♔c3 18 ♔e3 ♔c2 19 ♕b4 ♔c1 20 ♔d3 ♔d1 21 ♕b1#

2 ♔f3 ♔h2 3 ♕h5+ ♔g1 4 ♕g5+ ♔f1

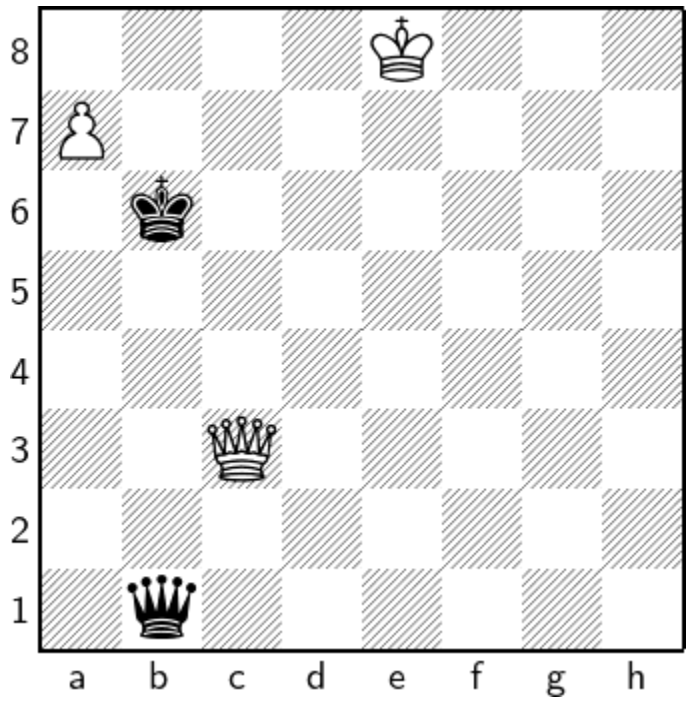
4…♕g4+ 5 ♕×g4+ ♔f1 6 ♕g2+ ♔e1 7 ♕e2#

1.164 ?

1.164.1 ?



1 ♕a5+ ♔×a5 2 a8♕+ ♔b6 3 ♕b8+

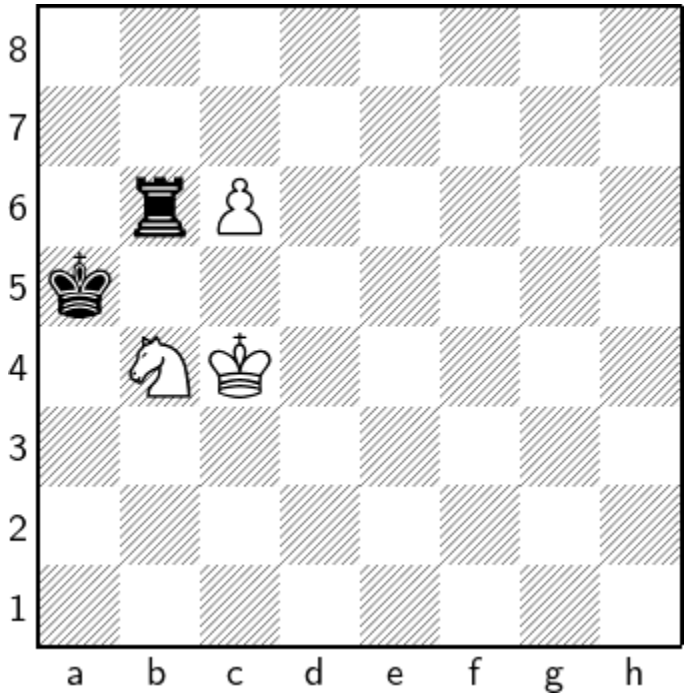


1 ♕a5+ ♔×a5 2 a8♕+ ♔b6

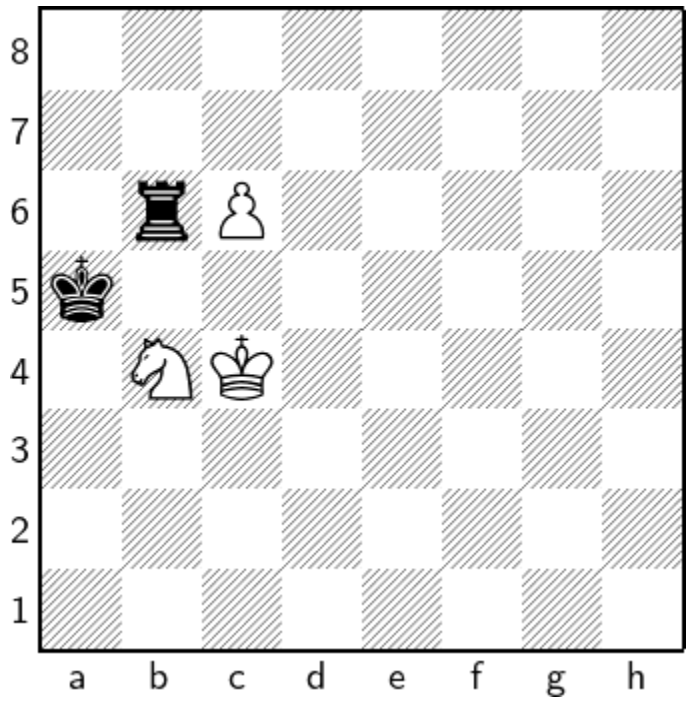
2…♔b4 3 ♕b7+ ♔c4 4 ♕×b1 ♔c3 5 ♕d1 ♔b2 6 ♔d7 ♔c3 7 ♔c6 ♔b2 8 ♔d6 ♔c3 9 ♔c5 ♔b2 10 ♔c4 ♔a2 11 ♔c3 ♔a3 12 ♕a1#

1.165 ?

1.165.1 ?



1 c7 ♖c6+ 2 ♘×c6+ ♔b6 3 c8♖

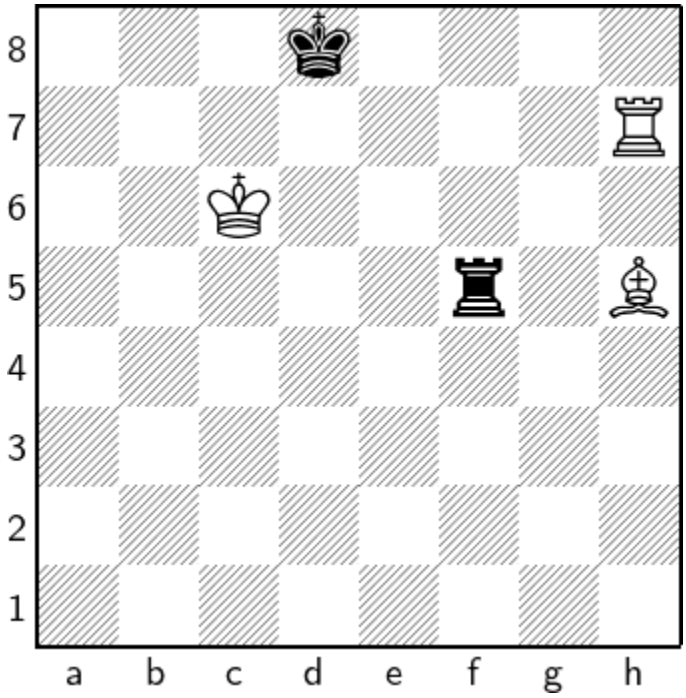


1 c7 ♖c6+

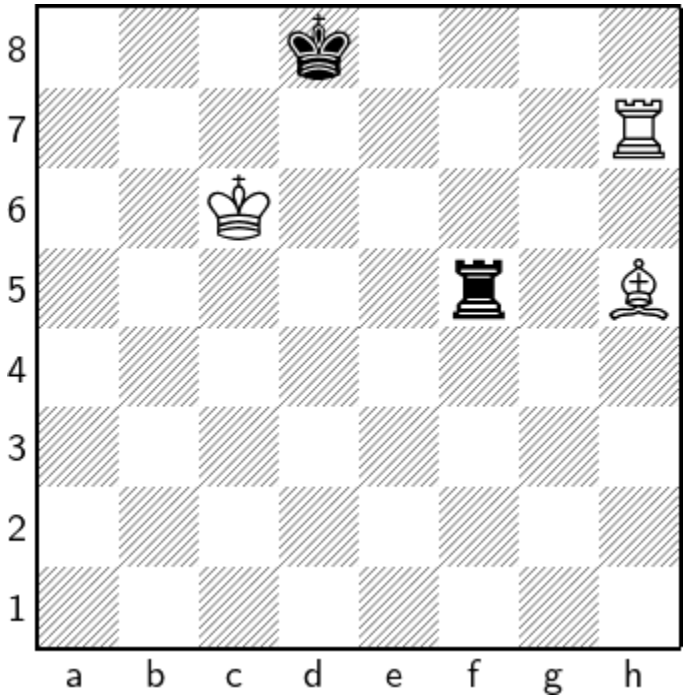
1…♖×b4+ 2 ♔d3 ♖b3+ 3 ♔c2 ♖b6

1.166 ?

1.166.1 ?

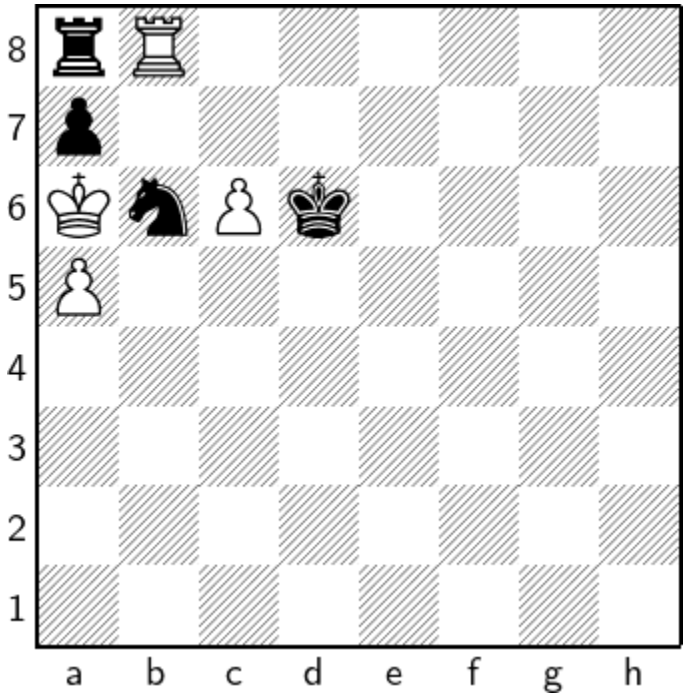


1 ♖d7+ ♔c8 2 ♗g4

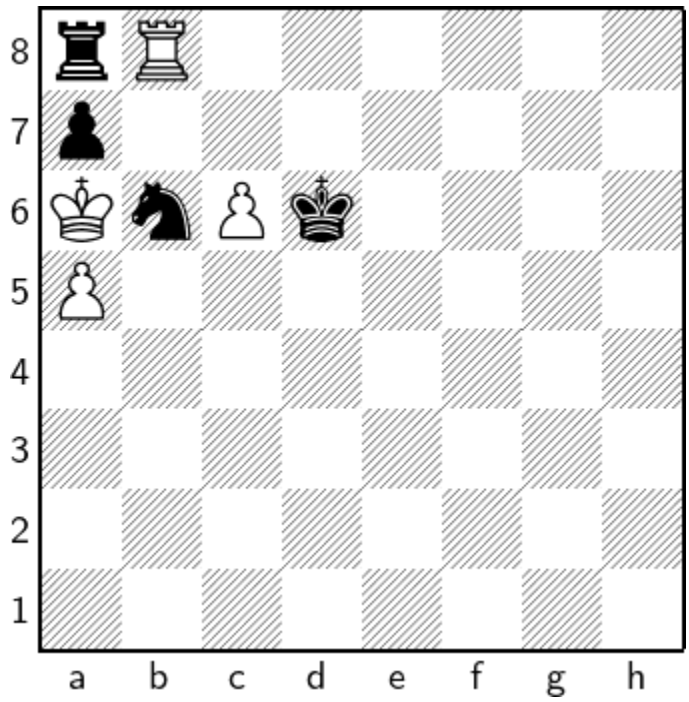


1.167 ?

1.167.1 ?



1 c7 ♔×c7 2 a×b6+ ♔×b8 3 b7



1 c7 ♔×c7

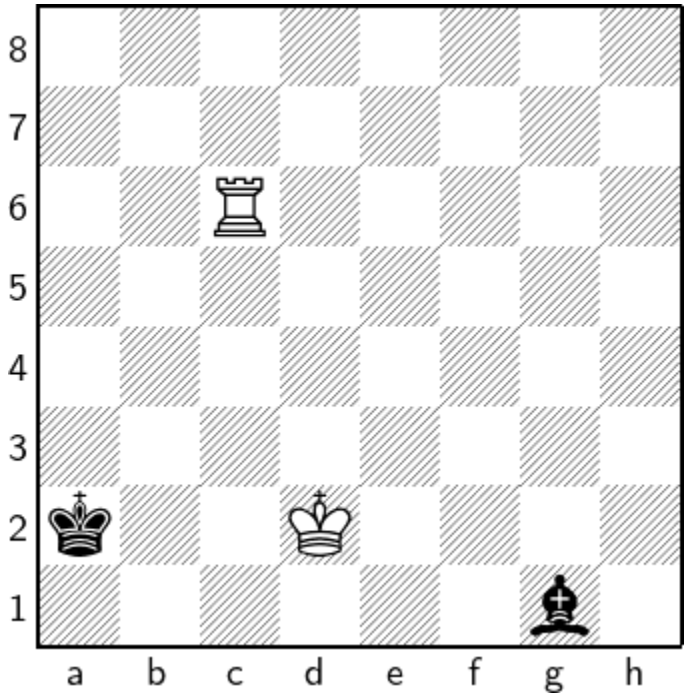
1…♘d5 2 c8♕ ♖×b8 3 ♕×b8+ ♔c6 4 ♔×a7 ♔c5 5 ♕e5 ♔c6 6 ♕×d5+ ♔×d5 7 ♔b6 ♔c4 8 a6 ♔d3 9 a7 ♔d2 10 a8♕ ♔e3 11 ♕d5 ♔f4 12 ♔c5 ♔e3 13 ♕f5 ♔d2 14 ♕e4 ♔c1 15 ♕e2 ♔b1 16 ♔b4 ♔a1 17 ♔c3 ♔b1 18 ♕b2#

2 a×b6+ ♔×b8

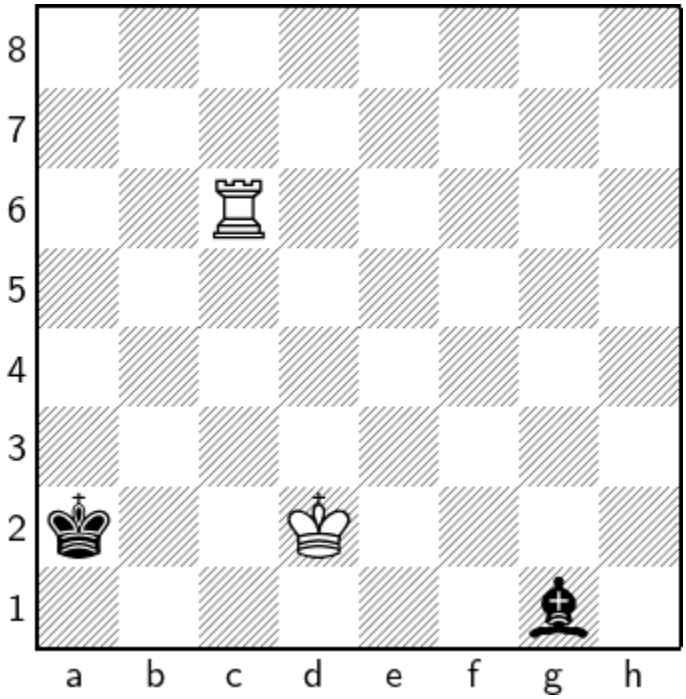
2…a×b6+ 3 ♖×a8 ♔c6 4 ♖c8+ ♔d7 5 ♖c4 ♔d6 6 ♔×b6 ♔d5 7 ♔b5 ♔e6 8 ♔c5 ♔e5 9 ♔c6 ♔f6 10 ♔d6 ♔f5 11 ♖b4 ♔g6 12 ♔e6 ♔g5 13 ♖a4 ♔g6 14 ♖g4+ ♔h5 15 ♔f5 ♔h6 16 ♔f6 ♔h7 17 ♖g1 ♔h8 18 ♔f7 ♔h7 19 ♖h1#

1.168 ?

1.168.1 ?

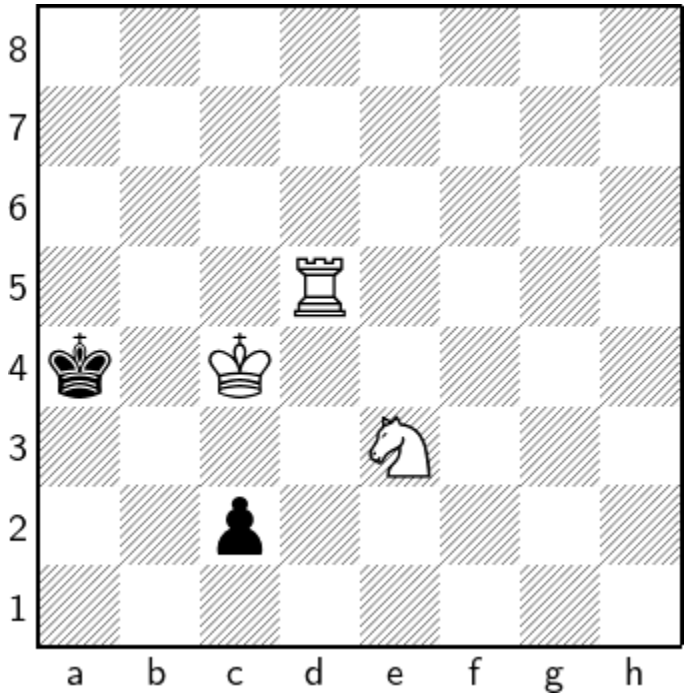


1 ♔c3 ♗f2 2 ♖e6 ♔b1 3 ♖e2 ♗h4 4 ♖c2

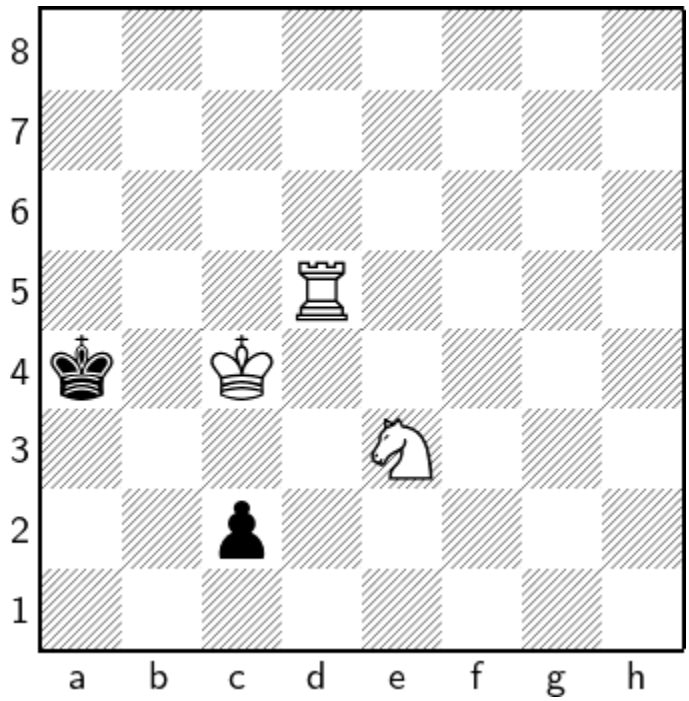


1.169 ?

1.169.1 ?



1 ♘d1 c1♕+ 2 ♘c3+ ♔a3 3 ♖a5+ ♔b2 4 ♖a2#



1 ♘d1 c1♕+

a) 1…c×d1♕ 2 ♖×d1

b) 1…c×d1♖ 2 ♖×d1

c) 1…c×d1♗ 2 ♖×d1

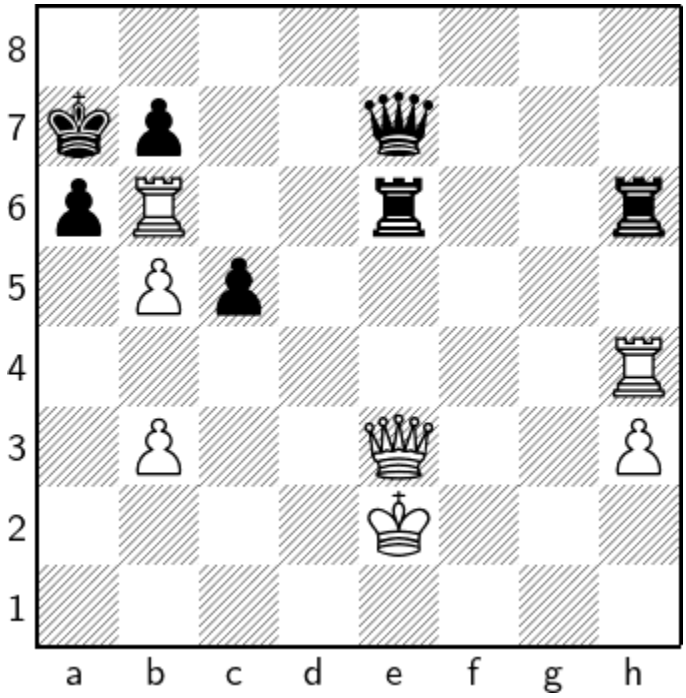
d) 1…c×d1♘ 2 ♖×d1

2 ♘c3+ ♔a3

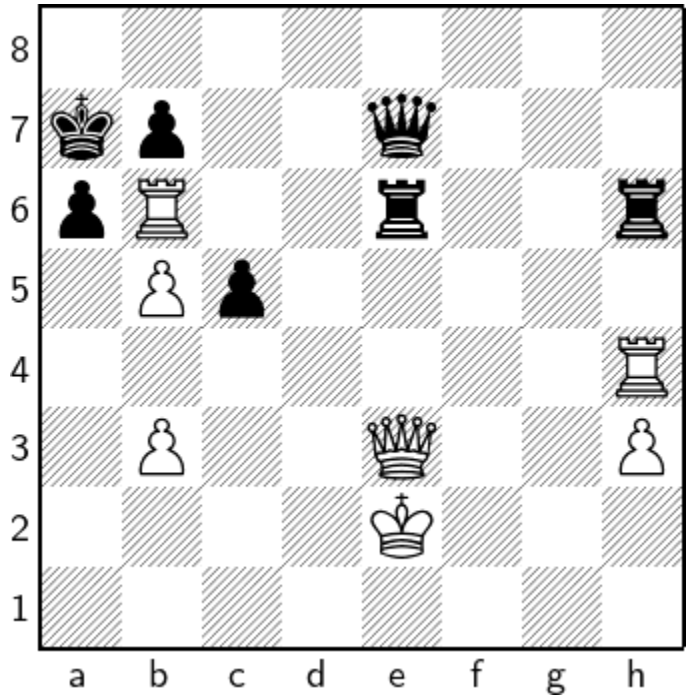
2…♕×c3+ 3 ♔×c3 ♔a3 4 ♖a5#

1.170 ?

1.170.1 ?



1 ♖×e6 ♖×e6 2 b6+ ♔×b6 3 ♖h6



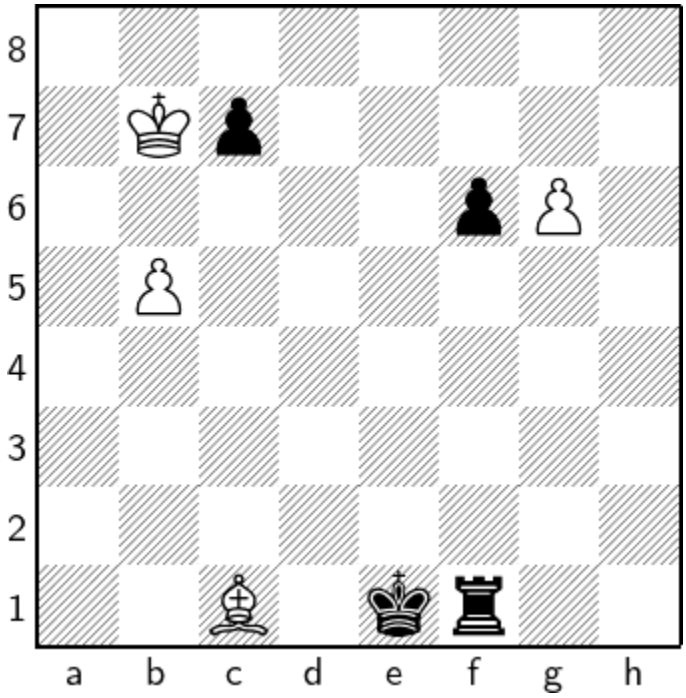
1 ♖×e6 ♖×e6 2 b6+ ♔×b6

a) 2…♔×b6 3 ♖h6

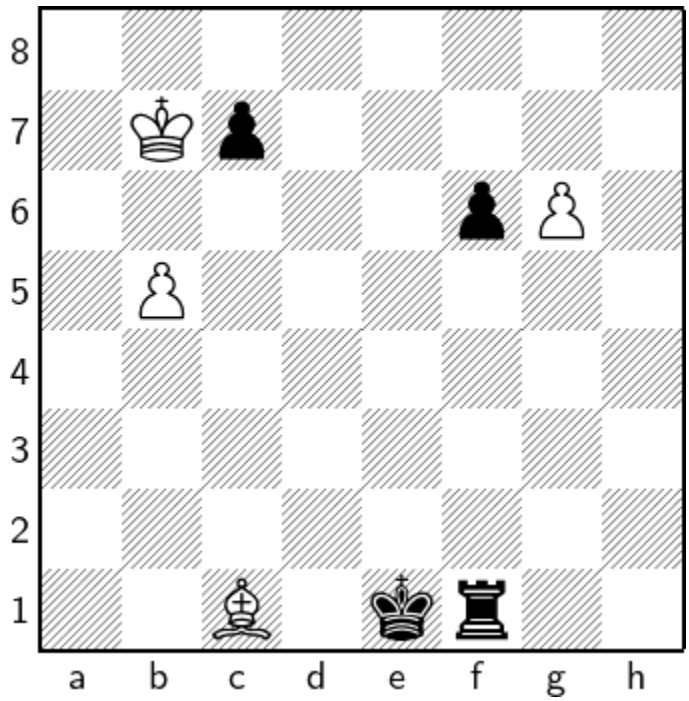
b) 2…♖×b6 3 ♕×e7

1.171 ?

1.171.1 ?

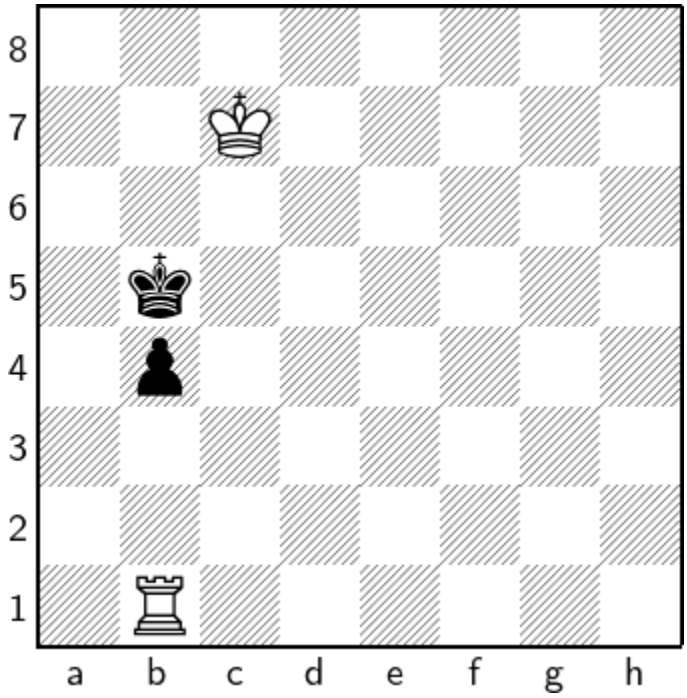


1 ♗e3 ♖f3 2 ♗g5 f×g5 3 g7

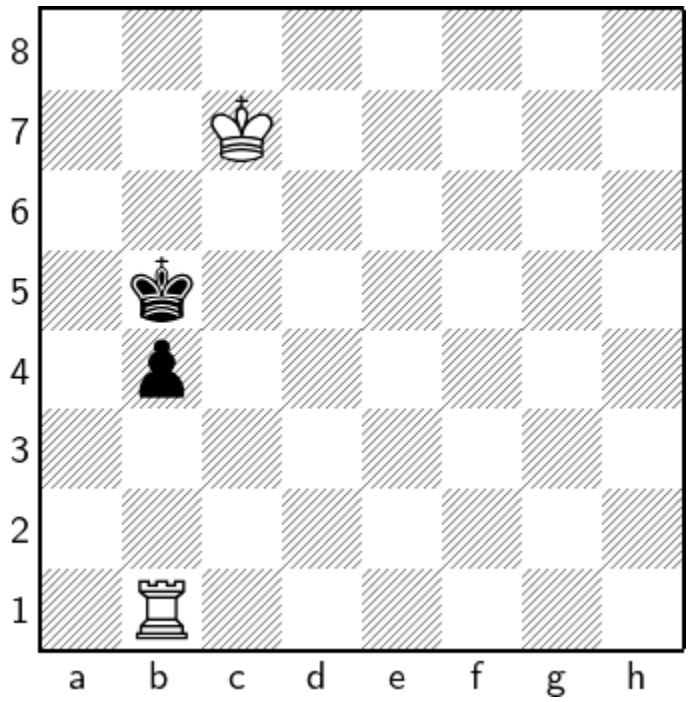


1.172 ?

1.172.1 ?



1 ♔b7 ♔c4 2 ♔a6 b3 3 ♔a5 ♔c3 4 ♔a4 b2 5 ♔a3



1 ♔b7 ♔c4

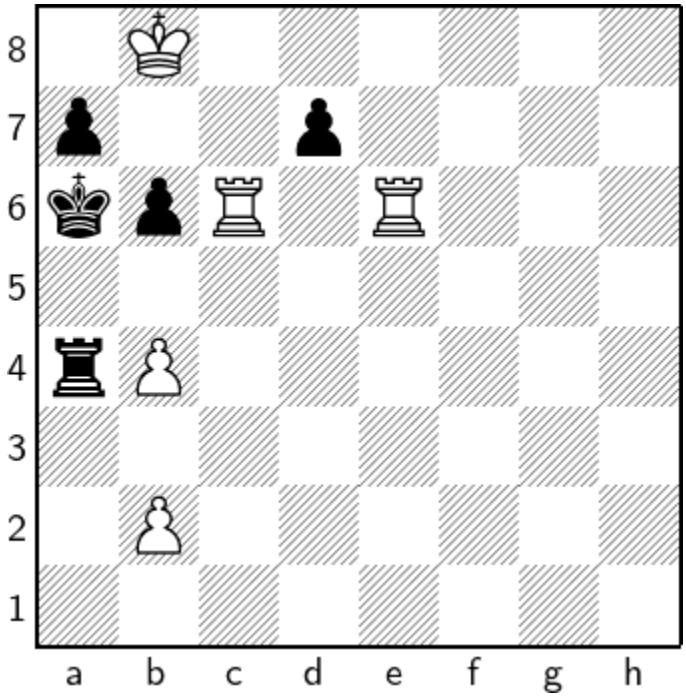
1…♔c5 2 ♔a6 ♔c4 3 ♔b6 b3 4 ♔a5 ♔c3 5 ♔a4 b2 6 ♔a3 ♔c2 7 ♖×b2+ ♔d3 8 ♖b4 ♔c3 9 ♖h4 ♔d2 10 ♔b4 ♔d3 11 ♔b3 ♔e3 12 ♔c3 ♔e2 13 ♖e4+ ♔f2 14 ♔d2 ♔f3 15 ♖b4 ♔g2 16 ♔e2 ♔g3 17 ♖e4 ♔g2 18 ♖e3 ♔g1 19 ♔f3 ♔f1 20 ♔g3 ♔g1 21 ♖e1#

2 ♔a6 b3 3 ♔a5 ♔c3 4 ♔a4 b2

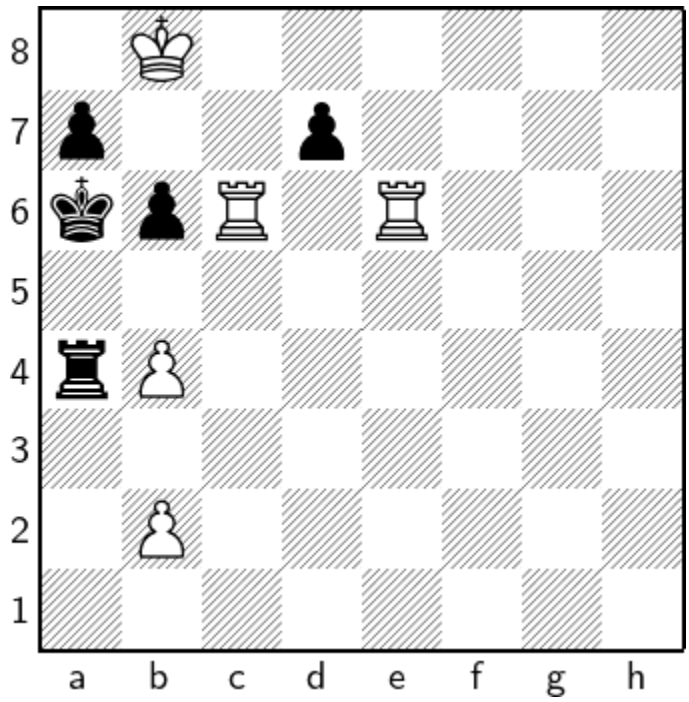
4…♔c4 5 ♖×b3 ♔d5 6 ♖e3 ♔c4 7 ♖e1 ♔d5 8 ♔b5 ♔d4 9 ♔c6 ♔d3 10 ♔c5 ♔d2 11 ♖e4 ♔d3 12 ♖e5 ♔c2 13 ♔c4 ♔d2 14 ♖e4 ♔c2 15 ♖e2+ ♔d1 16 ♔d3 ♔c1 17 ♔c3 ♔b1 18 ♖e1+ ♔a2 19 ♖d1 ♔a3 20 ♖a1#

1.173 ?

1.173.1 ?



1 ♖e5 d×c6 2 b5+ c×b5 3 b4 ♖×b4 4 ♖e7 ♔a5 5 ♖×a7#



1 ♖e5 d×c6 2 b5+ c×b5

2…♔a5 3 b×c6+ b5 4 c7 ♖c4 5 c8♕ ♖×c8+ 6 ♔×c8 ♔b4 7 ♔b7 ♔c4 8 ♔×a7 b4 9 ♖e4+ ♔c5 10 b3 ♔d6 11 ♖×b4 ♔d5 12 ♖c4 ♔e6 13 b4 ♔d5 14 ♖c8 ♔e6 15 b5 ♔d7 16 ♖c6 ♔e7 17 ♖h6 ♔d7 18 b6 ♔e7 19 b7 ♔f7 20 b8♖ ♔g7 21 ♖c6 ♔h7 22 ♖b7+ ♔h8 23 ♖c8#

3 b4 ♖×b4

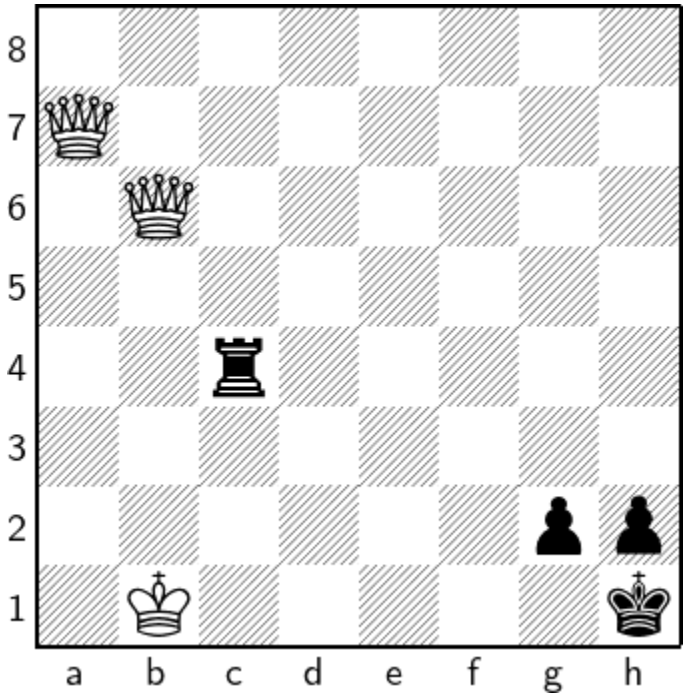
3…♖×b4 4 ♖e7

4 ♖e7 ♔a5

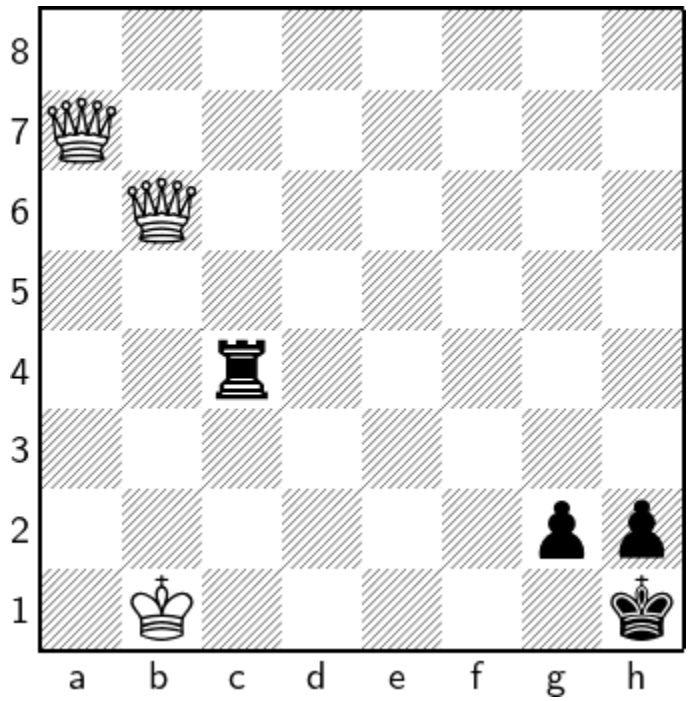
4…♖b1 5 ♖×a7#

1.174 ?

1.174.1 ?



1 ♔b2 g1♕ 2 ♕a8+ ♕g2+ 3 ♕f2 ♕×a8 4 ♕f1#

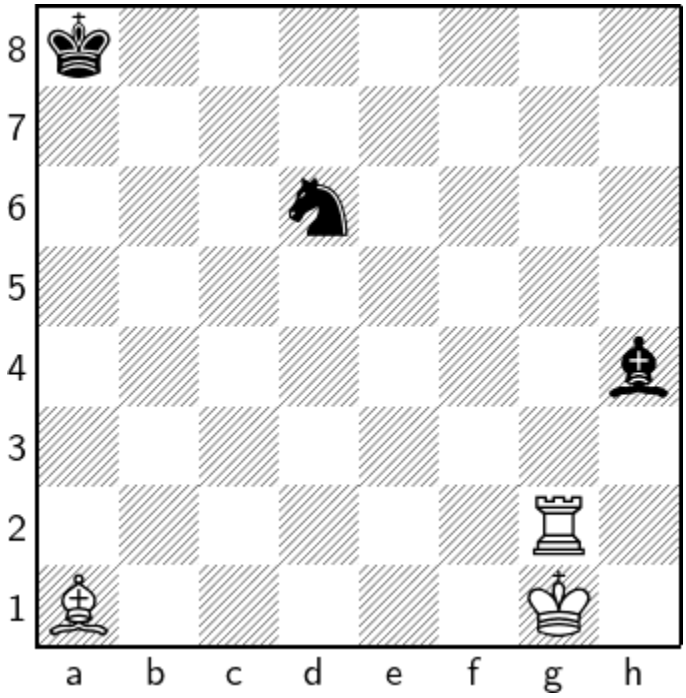


1 ♔b2 g1♕ 2 ♕a8+ ♕g2+ 3 ♕f2 ♕×a8

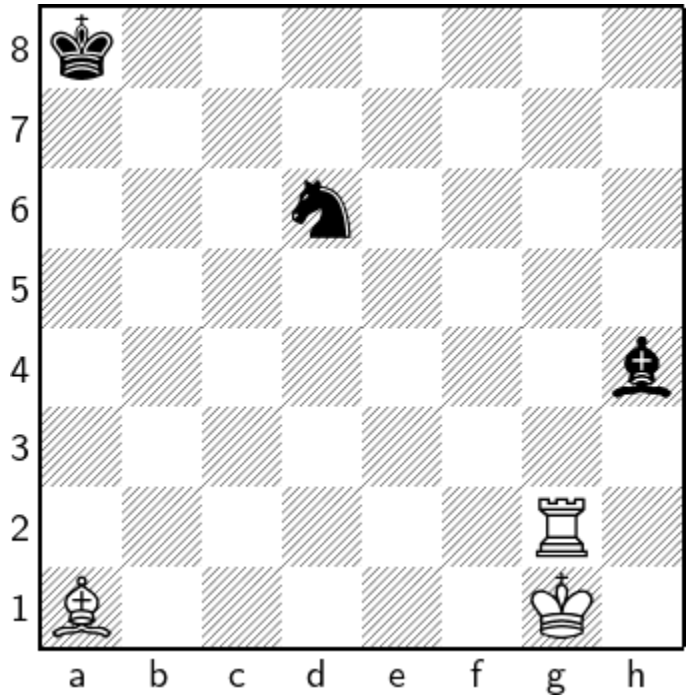
3…♖g4 4 ♕a1+ ♕g1

1.175 ?

1.175.1 ?

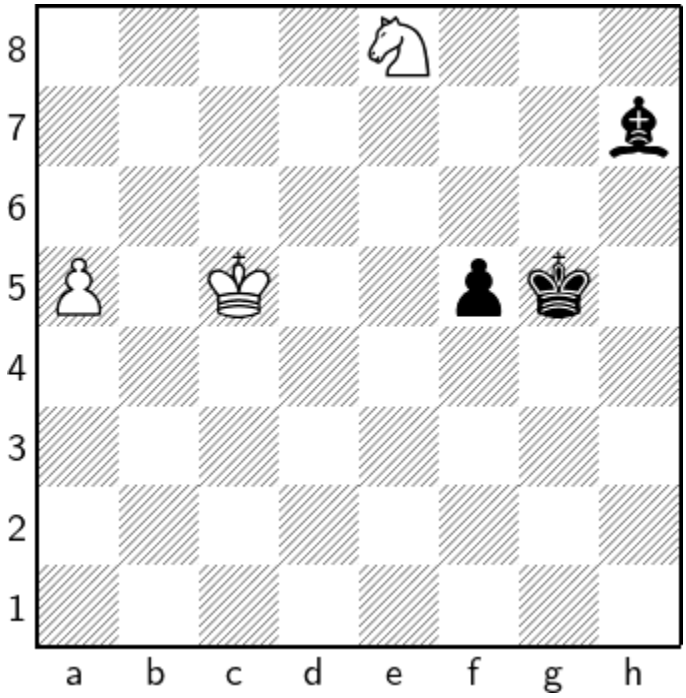


1 ♖g4 ♗d8 2 ♖g8 ♘b7 3 ♗f6

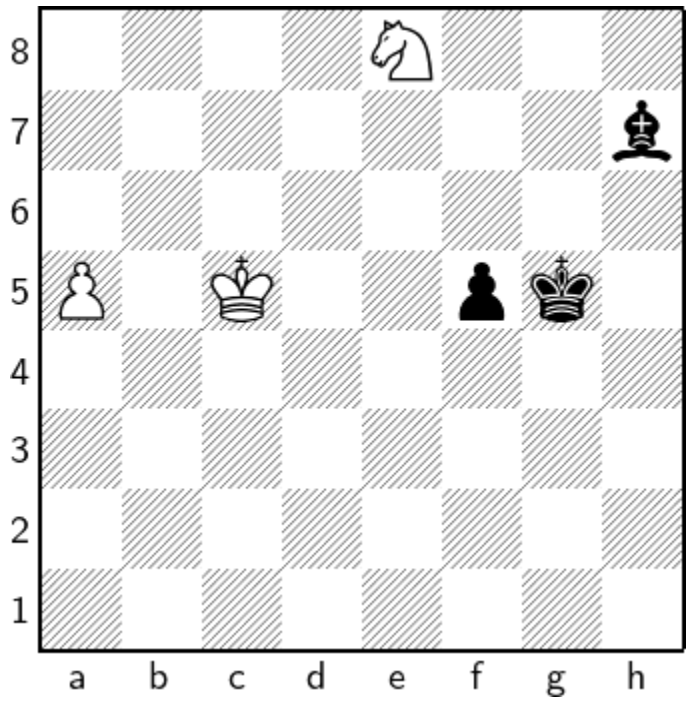


1.176 ?

1.176.1 ?



1 ♘f6 ♔×f6 2 a6 f4 3 ♔d4 f3 4 a7 f2 5 a8♕ f1♕ 6 ♕f8+



1 ♘f6 ♔×f6

1…♔×f6 2 a6

2 a6 f4

2…♗g8 3 a7 f4 4 a8♕ ♗f7 5 ♔d6 ♔f5 6 ♕f8 f3 7 ♕×f7+ ♔e4 8 ♕a7 ♔d3 9 ♕f2 ♔e4 10 ♔c5 ♔e5 11 ♕×f3 ♔e6 12 ♕h5 ♔e7 13 ♕f5 ♔d8 14 ♕f7 ♔c8 15 ♔c6 ♔d8 16 ♕d7#

3 ♔d4 f3

3…♔f5 4 a7 ♗g6 5 a8♕ ♔f6 6 ♕d5 ♗b1 7 ♕c6+ ♔f5 8 ♕b5+ ♔f6 9 ♕×b1 f3 10 ♔d5 f2 11 ♕b6+ ♔f5 12 ♕×f2+ ♔g5 13 ♔e6 ♔g4 14 ♔f6 ♔h3 15 ♕g1 ♔h4 16 ♕g2 ♔h5 17 ♕h3#

4 a7 f2

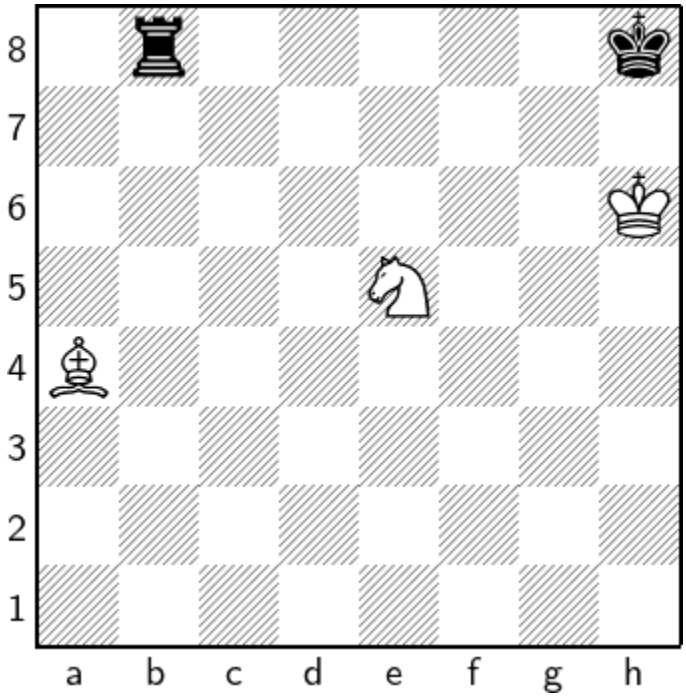
4…♔f5 5 a8♕ f2 6 ♕f8+ ♔e6 7 ♕h6+ ♔d7 8 ♕×h7+ ♔e6 9 ♕e4+ ♔d7 10 ♕f5+ ♔d6 11 ♕f6+ ♔d7 12 ♔d5 f1♕ 13 ♕×f1 ♔c7 14 ♔c5 ♔c8 15 ♕f7 ♔d8 16 ♔d6 ♔c8 17 ♕c7#

5 a8♕ f1♕

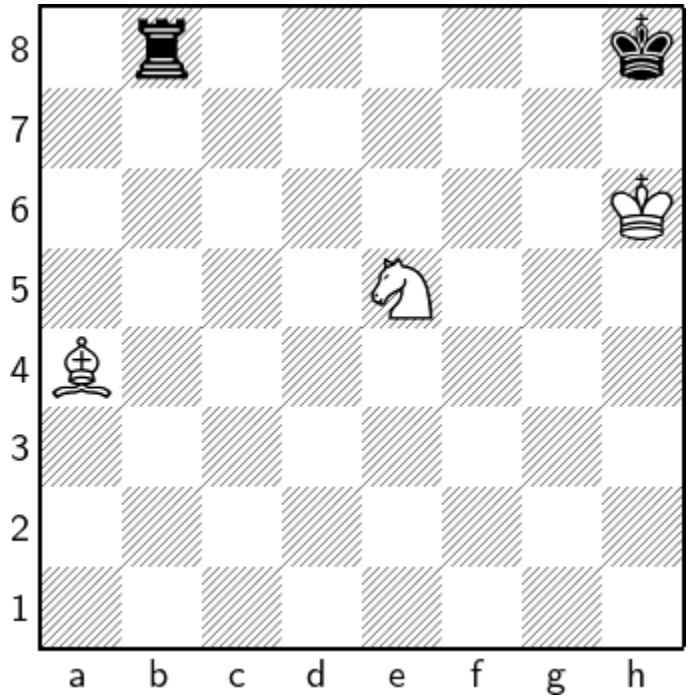
5…♗f5 6 ♕f3 ♔e6 7 ♕e2+ ♔f6 8 ♔d5 ♗g6 9 ♕×f2+ ♔e7 10 ♔e5 ♔d7 11 ♕g2 ♗e4 12 ♕×e4 ♔c7 13 ♕d5 ♔c8 14 ♕f7 ♔b8 15 ♔d6 ♔a8 16 ♔c6 ♔b8 17 ♕b7#

1.177 ?

1.177.1 ?

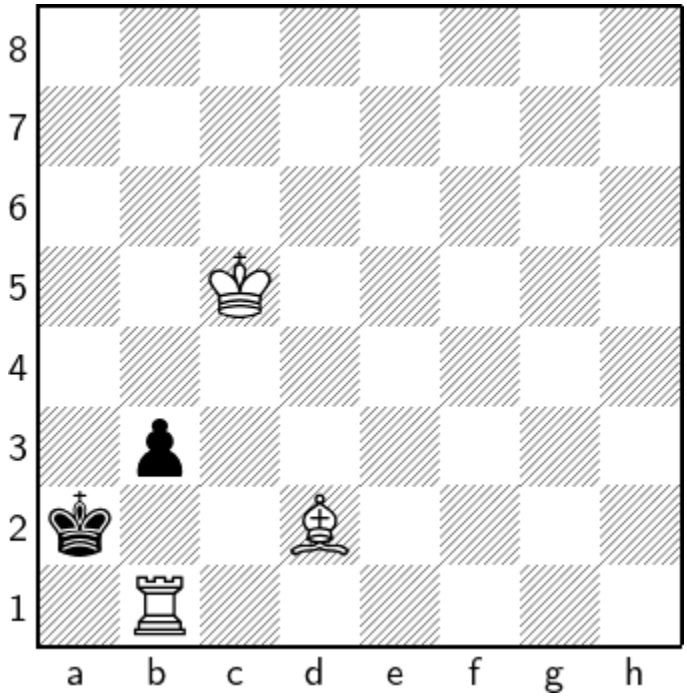


1 ♗c6 ♖f8 2 ♘g6+ ♔g8 3 ♗d5+ ♖f7 4 ♘e5 ♔h8 5 ♘×f7+

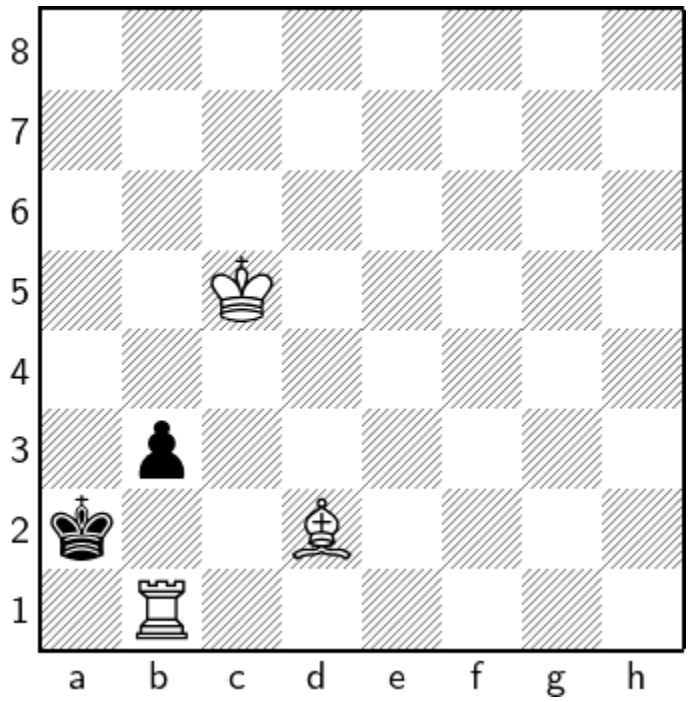


1.178 ?

1.178.1 ?



1 ♖c1 b2 2 ♖c2 ♔b3 3 ♖c3+ ♔a4 4 ♗c1 b1♕ 5 ♖a3#



1 ♖c1 b2 2 ♖c2 ♔b3

2…♔b1 3 ♖c3 ♔a2 4 ♗c1 b×c1♕ 5 ♖×c1 ♔b2 6 ♖d1 ♔c3 7 ♖d5 ♔b3 8 ♖d3+ ♔a2 9 ♔c4 ♔b2 10 ♖d2+ ♔c1 11 ♔c3 ♔b1 12 ♖d4 ♔a1 13 ♔c2 ♔a2 14 ♖a4#

3 ♖c3+ ♔a4

3…♔a2 4 ♗c1 b×c1♕ 5 ♖×c1 ♔b3 6 ♖c4 ♔a3 7 ♖c3+ ♔a2 8 ♔b4 ♔b2 9 ♖c5 ♔a1 10 ♖c2 ♔b1 11 ♔b3 ♔a1 12 ♖c1#

4 ♗c1 b1♕

a) 4…b×c1♕ 5 ♖×c1

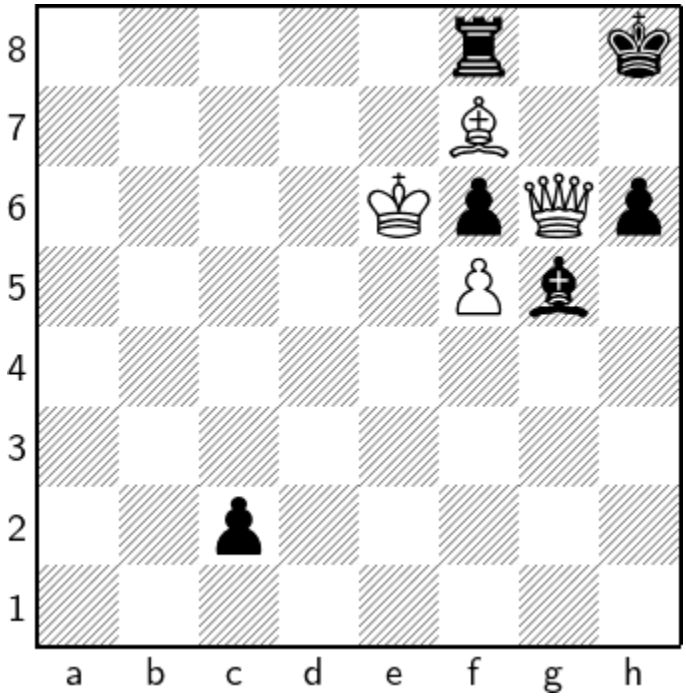
b) 4…b×c1♖ 5 ♖×c1

c) 4…b×c1♗ 5 ♖×c1

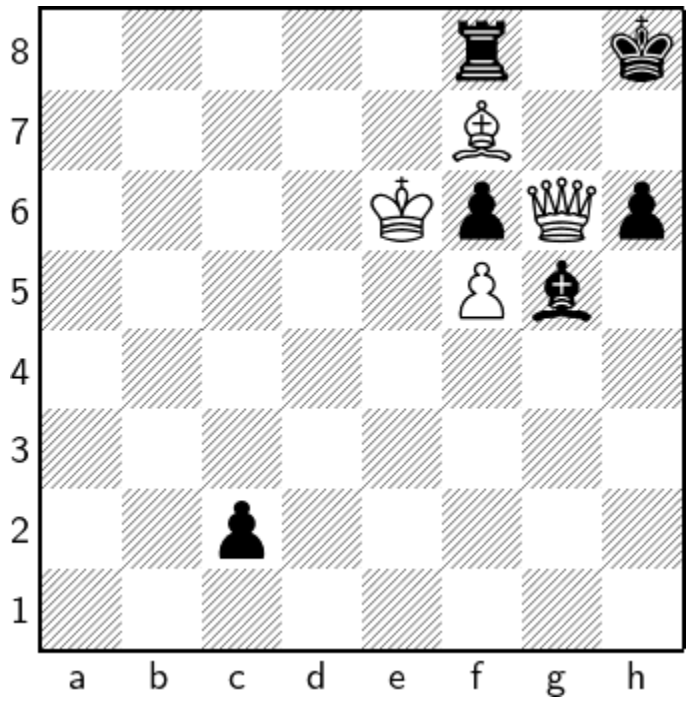
d) 4…b×c1♘ 5 ♖×c1

1.179 ?

1.179.1 ?



1 ♗g8 ♖×g8 2 ♔f7 ♖×g6 3 f×g6 c1♕ 4 g7+ ♔h7 5 g8♕#



1 ♗g8 ♖×g8

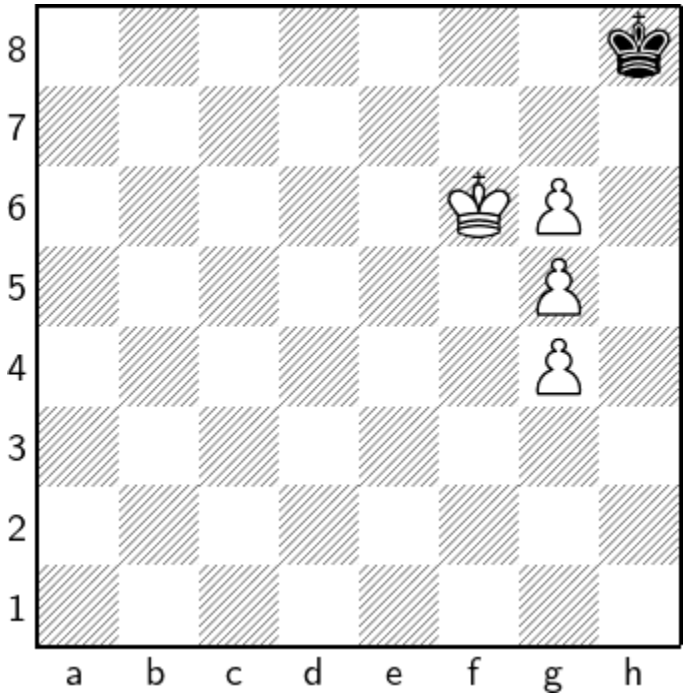
1…♖×g8 2 ♔f7

2 ♔f7 ♖×g6 3 f×g6 c1♕

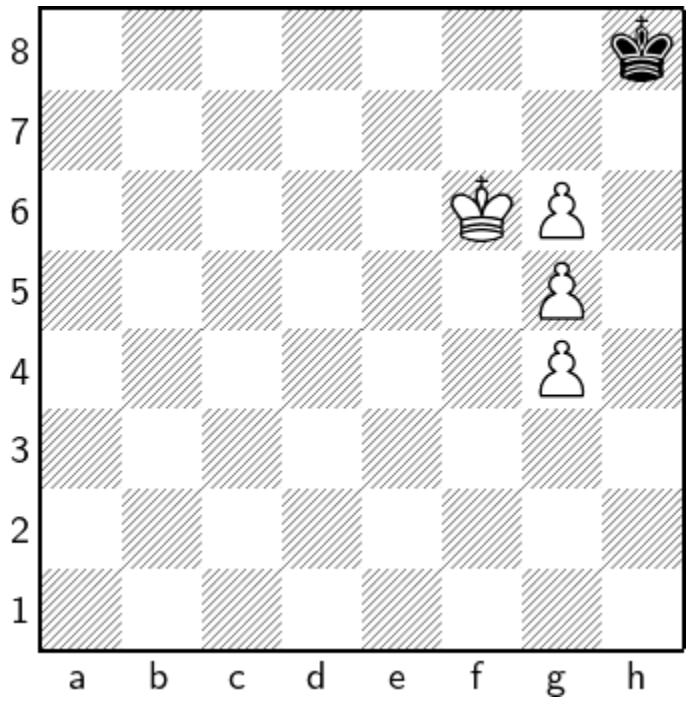
3…h5 4 g7+ ♔h7 5 g8♕+ ♔h6 6 ♕g6#

1.180 ?

1.180.1 ?



1 g7+ ♔g8 2 ♔f5 ♔×g7 3 g6 ♔h6 4 g7 ♔×g7 5 ♔g5



1 g7+ ♔g8 2 ♔f5

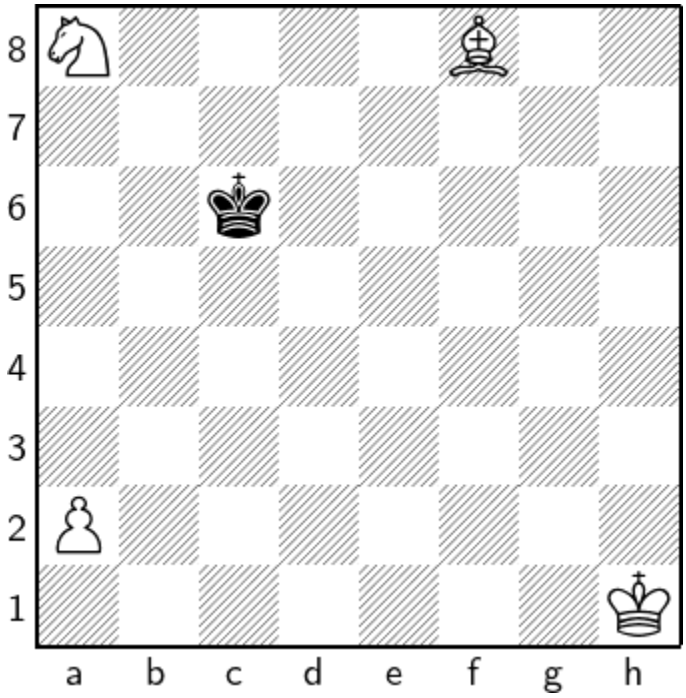
2 ♔e5 ♔f7 3 g8♘ ♔×g8 4 ♔f6 ♔h7 5 g6+ ♔h8 6 g7+ ♔g8 7 g5 ♔h7 8 g8♕+ ♔×g8 9 ♔g6 ♔f8 10 ♔h7 ♔e7 11 g6 ♔d6 12 g7 ♔c5 13 g8♕ ♔b4 14 ♔g6 ♔c5 15 ♔f5 ♔b4 16 ♕d5 ♔c3 17 ♔e5 ♔c2 18 ♔d4 ♔b2 19 ♕c4 ♔a1 20 ♕b5 ♔a2 21 ♔c3 ♔a1 22 ♕b2#

2…♔×g7 3 g6 ♔h6 4 g7 ♔×g7

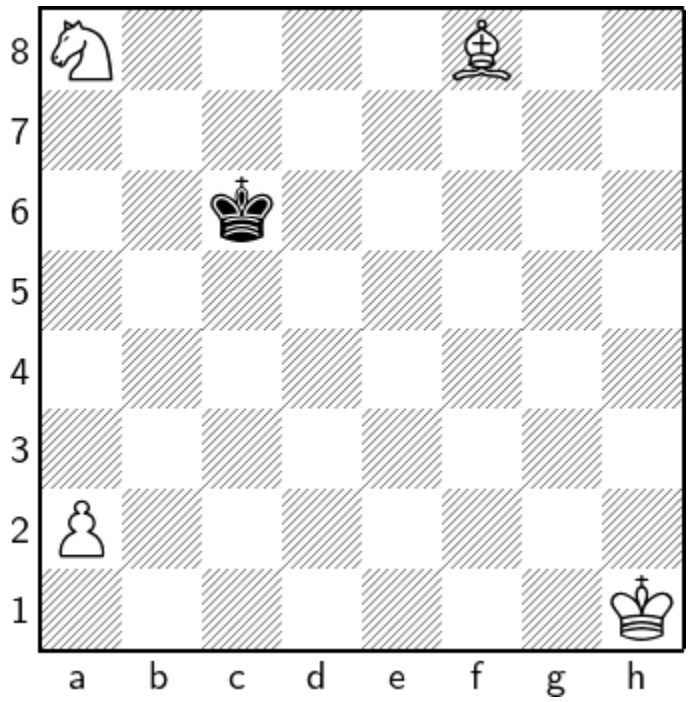
4…♔×g7 5 ♔g5

1.181 ?

1.181.1 ?



1 ♗c5 ♔×c5 2 ♘c7 ♔b4 3 ♘d5+ ♔a3 4 ♘c3 ♔b4 5 a4



1 ♗c5 ♔×c5 2 ♘c7 ♔b4

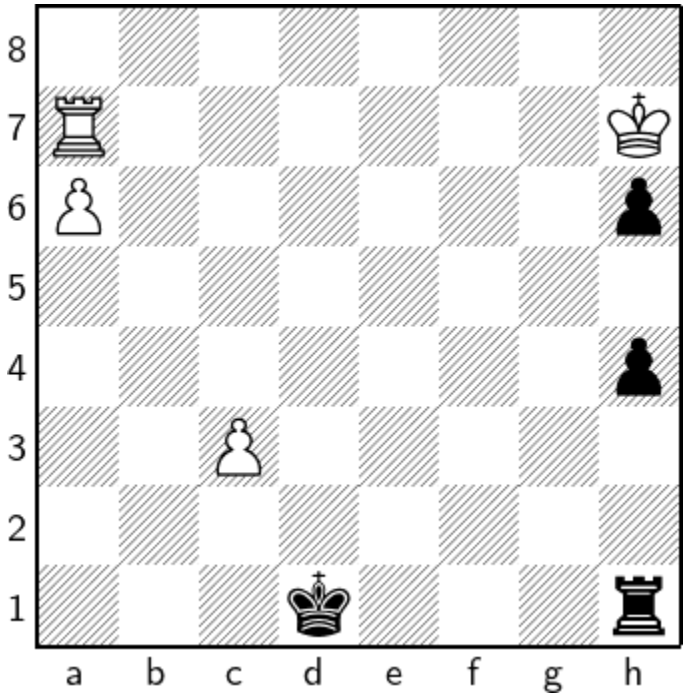
2…♔c6 3 ♘e8 ♔c5 4 ♘f6 ♔b4 5 ♘e4 ♔a3 6 ♘c3 ♔b4 7 ♘b1 ♔c5 8 ♔g2 ♔b4 9 ♔f3 ♔c5 10 ♔e3 ♔c4 11 ♔e4 ♔c5 12 ♘c3 ♔c6 13 ♔d4 ♔b6 14 ♔c4 ♔a5 15 a4 ♔a6 16 ♔b4 ♔b6 17 a5+ ♔c6 18 ♔c4 ♔b7 19 ♔b5 ♔c8 20 ♔b6 ♔d8 21 a6 ♔e8 22 a7 ♔e7 23 a8♕ ♔f6 24 ♕f3+ ♔g6 25 ♘d5 ♔g5 26 ♘e7 ♔h6 27 ♕g4 ♔h7 28 ♕g6+ ♔h8 29 ♕h6#

3 ♘d5+ ♔a3

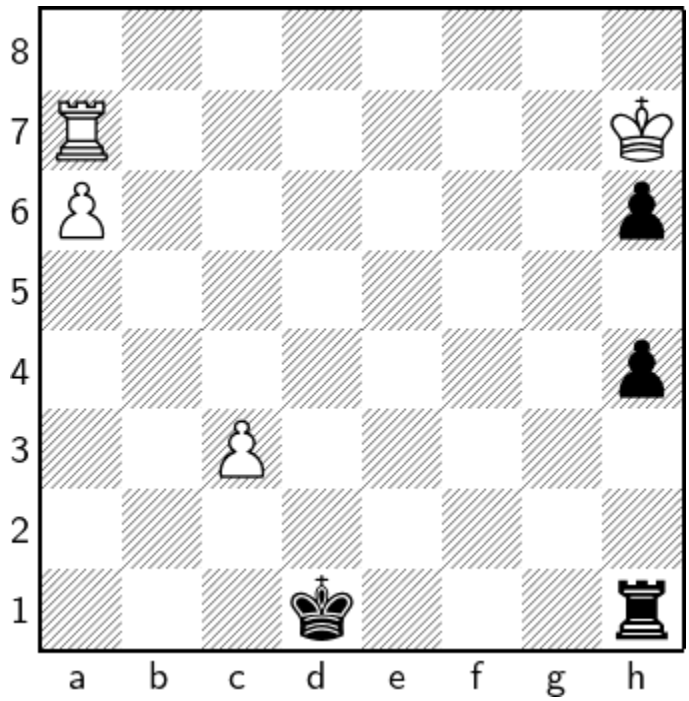
3…♔c4 4 ♘e3+ ♔b4 5 ♘d1 ♔a3 6 ♘c3 ♔b4 7 a4 ♔c5 8 ♔g2 ♔b4 9 ♔f3 ♔c5 10 ♔e3 ♔c6 11 ♔d4 ♔b6 12 ♔c4 ♔a5 13 ♔b3 ♔a6 14 ♔b4 ♔b6 15 a5+ ♔c6 16 ♔c4 ♔c7 17 ♔b5 ♔d6 18 a6 ♔c7 19 ♔c5 ♔c8 20 ♔c6 ♔d8 21 a7 ♔e7 22 a8♕ ♔f6 23 ♕f8+ ♔g6 24 ♘e4 ♔h7 25 ♕f7+ ♔h8 26 ♕e7 ♔g8 27 ♘f6+ ♔h8 28 ♕h7#

1.182 ?

1.182.1 ?

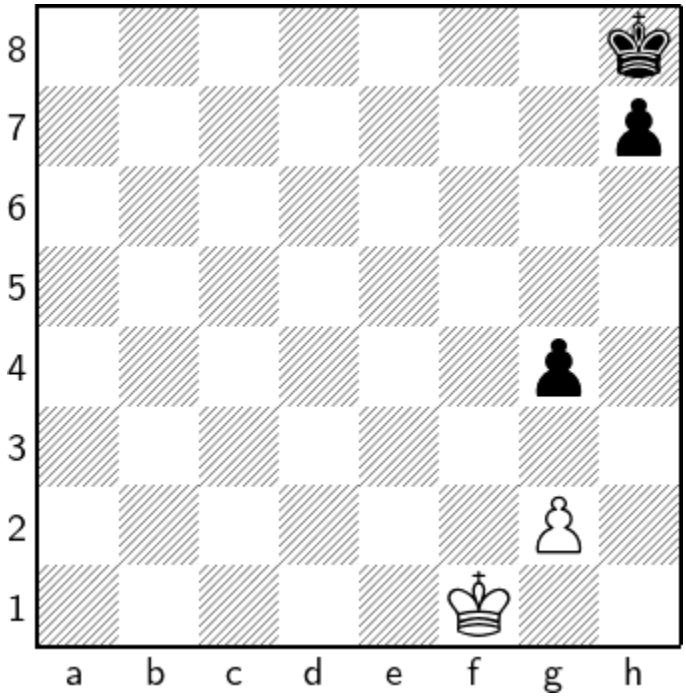


1 ♖g7 ♔c2 2 ♖g2+ ♔b3 3 ♖a2 ♔×a2 4 a7

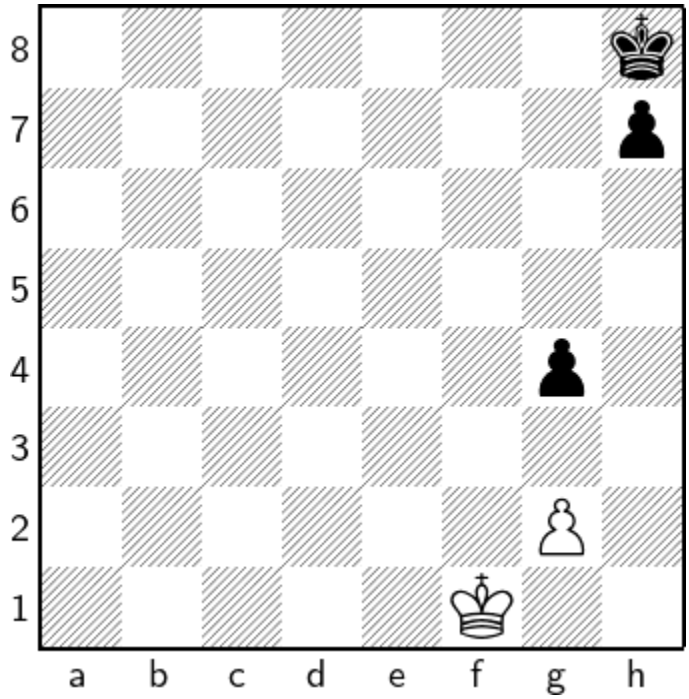


1.183 ?

1.183.1 ?

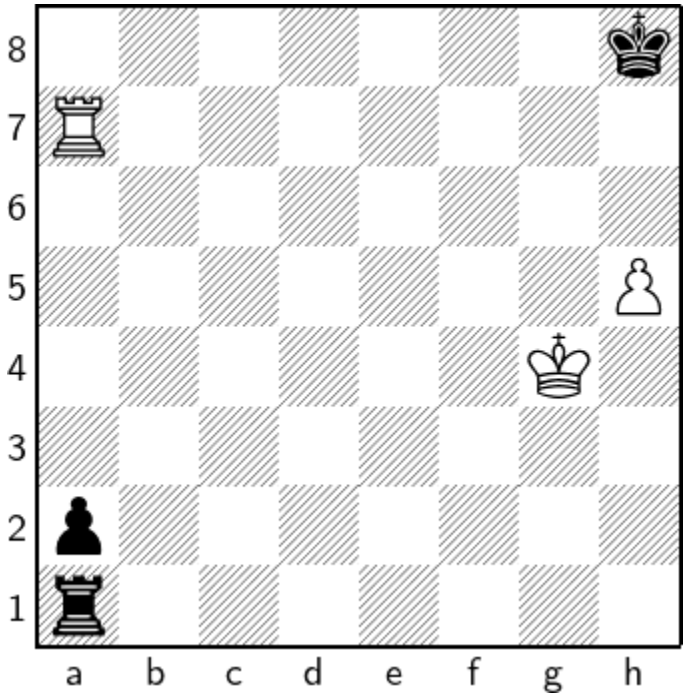


1 ♔f2 ♔g7 2 ♔g3 h5 3 ♔h4 ♔g6 4 g3 ♔h6

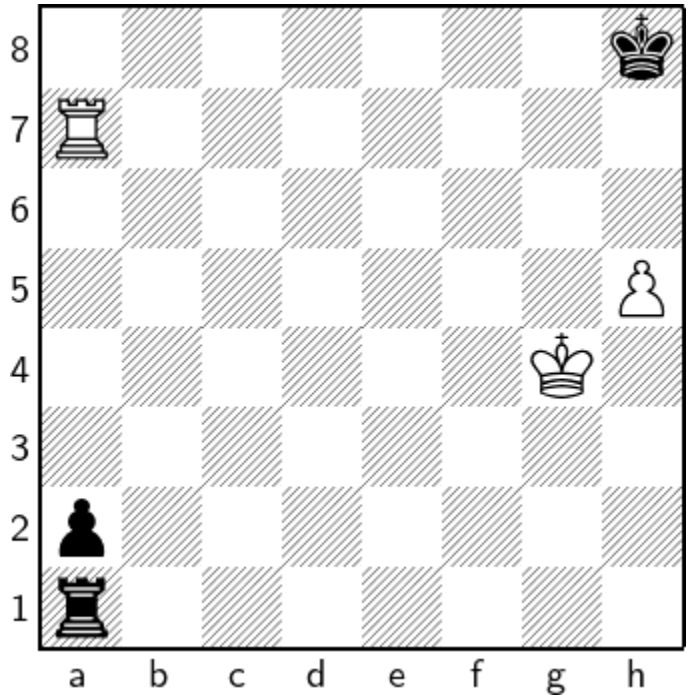


1.184 ?

1.184.1 ?

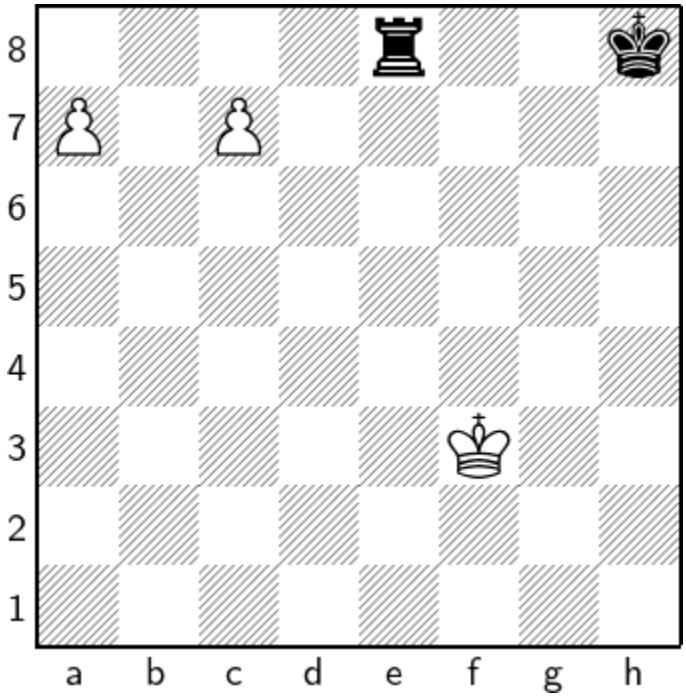


1 ♔g5 ♖g1+ 2 ♔h6 a1♕ 3 ♖a8+ ♕×a8

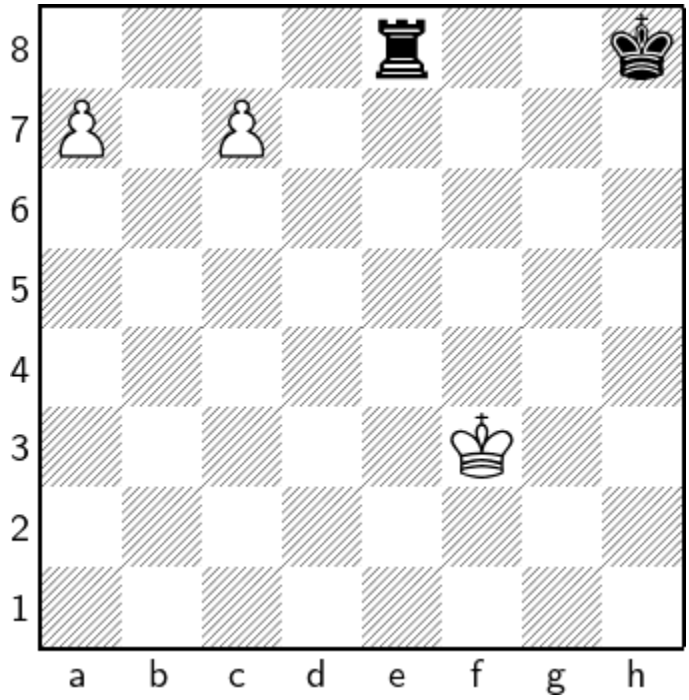


1.185 ?

1.185.1 ?

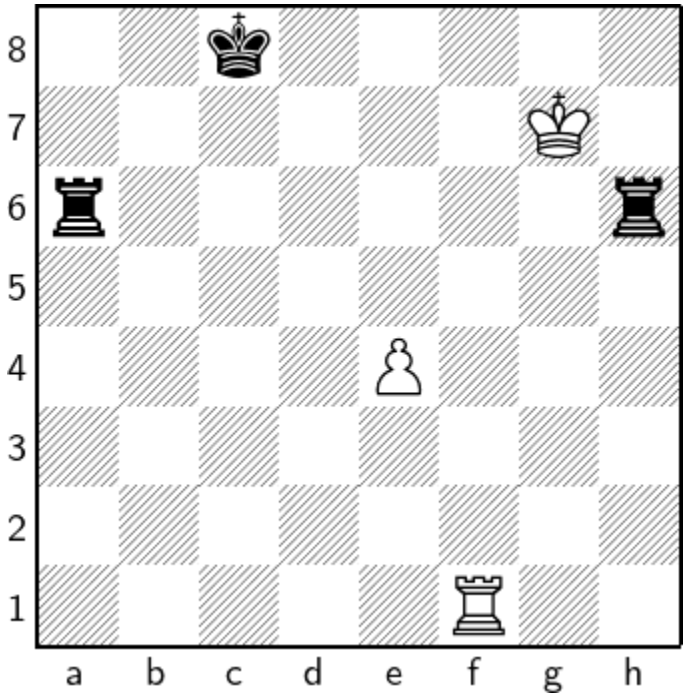


1 ♔f4 ♔g7 2 a8♕ ♖×a8 3 ♔e5 ♔f7 4 ♔d6 ♔e8 5 ♔c6 ♖c8 6 ♔d6 ♖a8 7 ♔c6 ♖c8 8 ♔d6

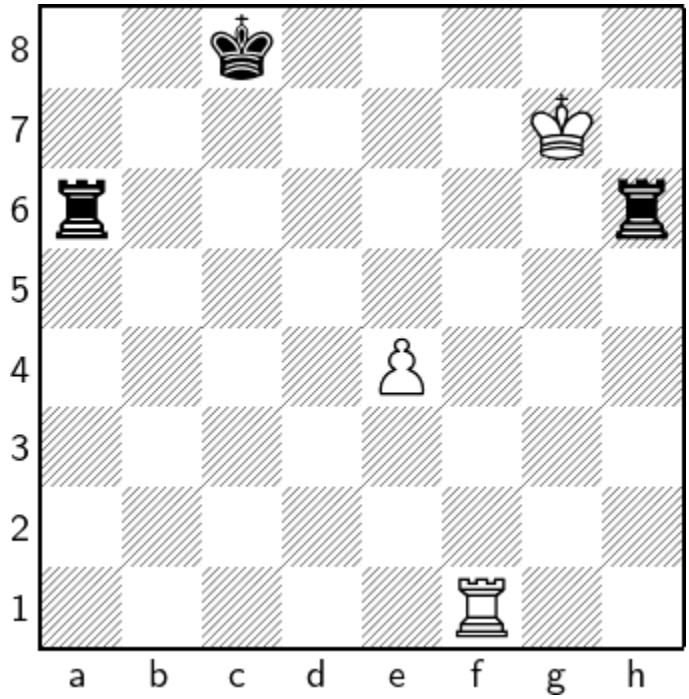


1.186 ?

1.186.1 ?

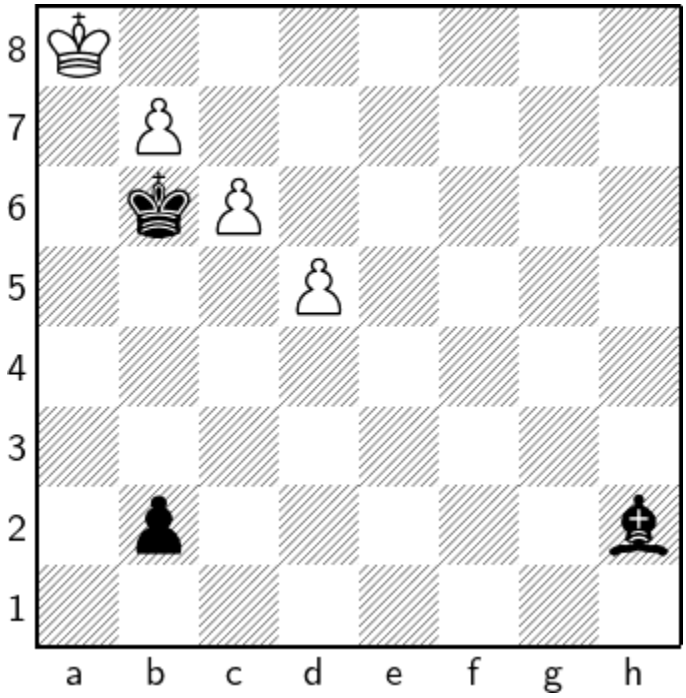


1 ♖f8+ ♔d7 2 ♖f7+ ♔e6 3 ♖f5

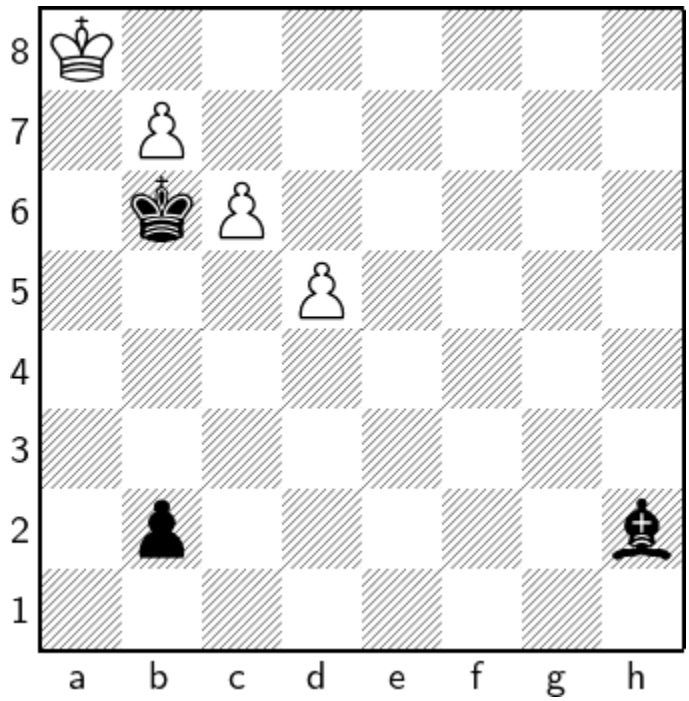


1.187 ?

1.187.1 ?



1 d6 ♗×d6 2 b8♕+ ♗×b8 3 c7 ♔×c7

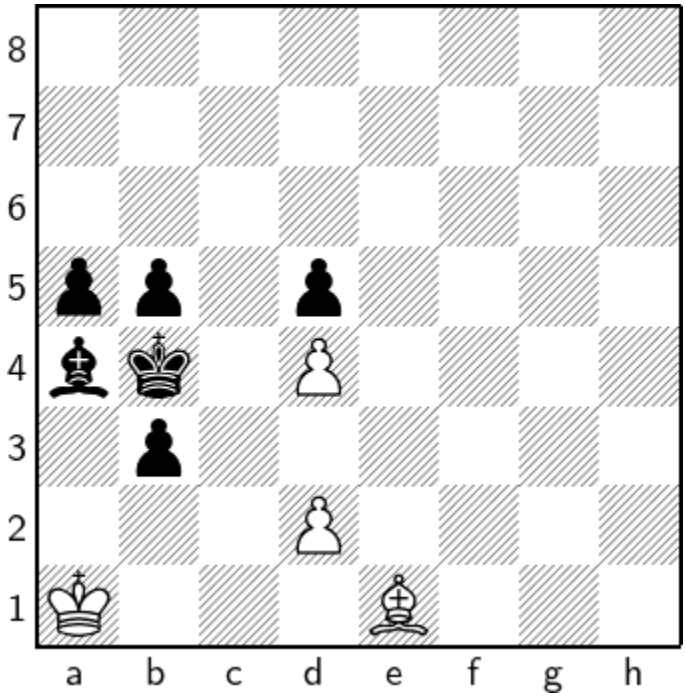


1 d6 ♗×d6 2 b8♕+ ♗×b8 3 c7 ♔×c7

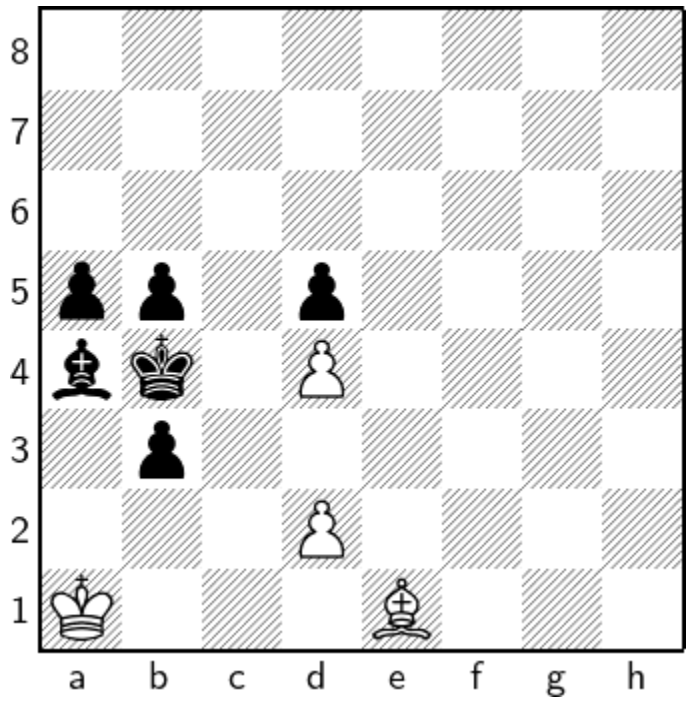
3…♗×c7

1.188 ?

1.188.1 ?

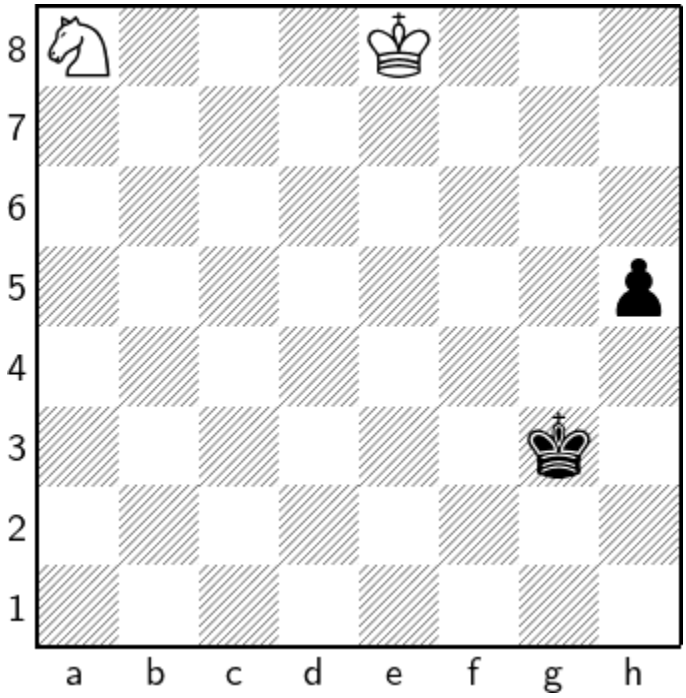


1 d3+ ♔a3 2 ♗b4+ ♔×b4 3 ♔b2

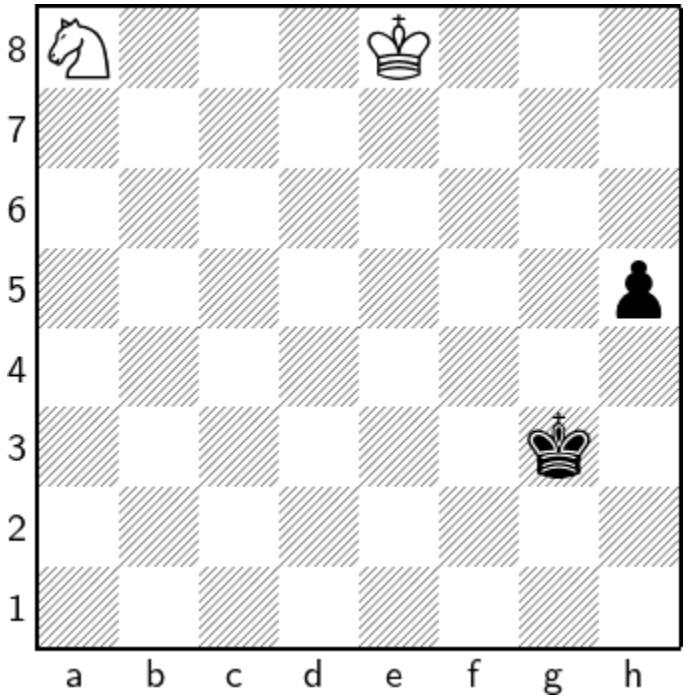


1.189 ?

1.189.1 ?

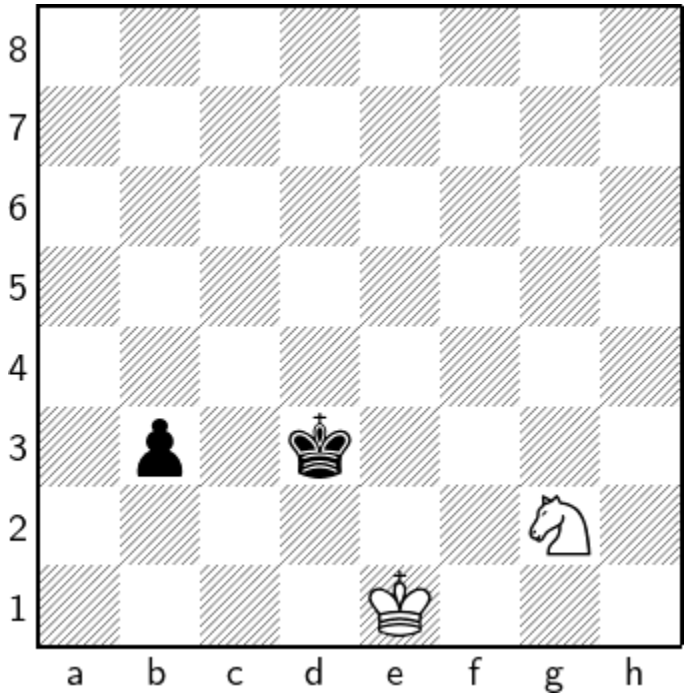


1 ♘b6 h4 2 ♘c4 ♔f2 3 ♘e5 ♔g3 4 ♘c4 h3 5 ♘e3

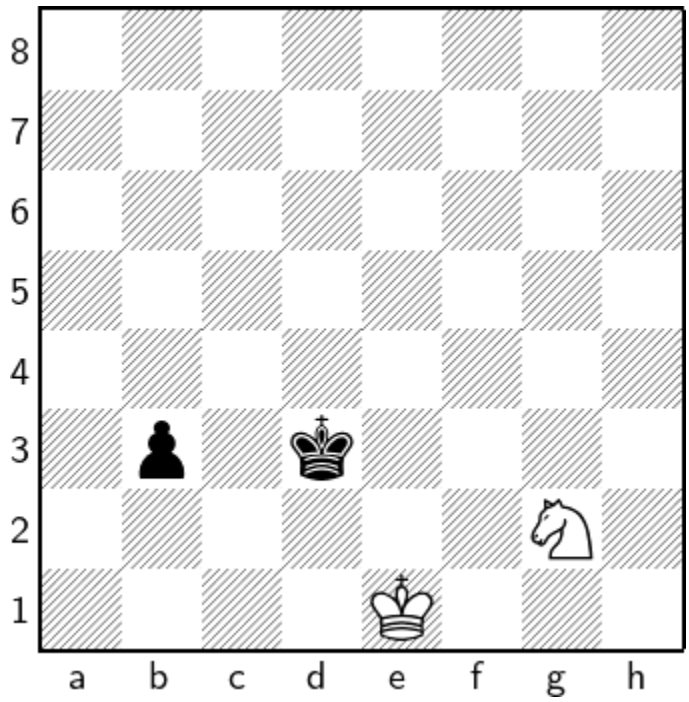


1.190 ?

1.190.1 ?

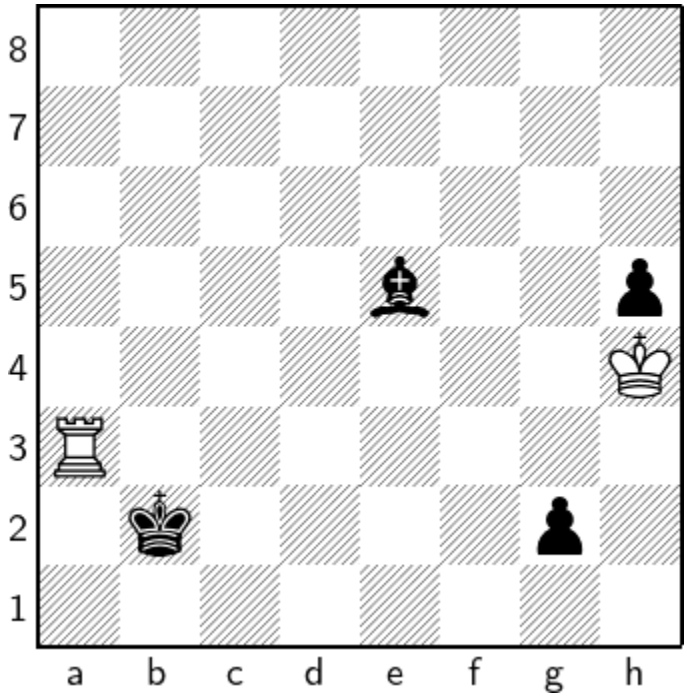


1 ♔d1 b2 2 ♘f4+ ♔c3 3 ♘e2+ ♔b3 4 ♘c1+

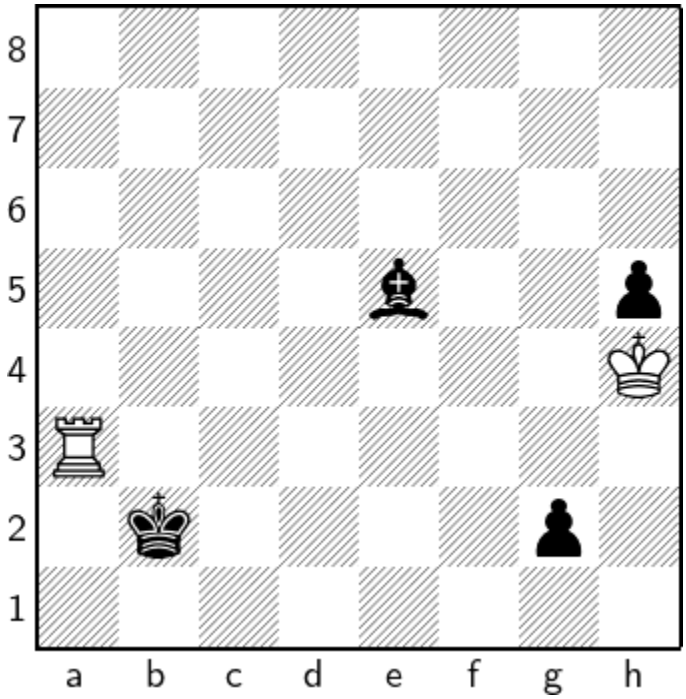


1.191 ?

1.191.1 ?

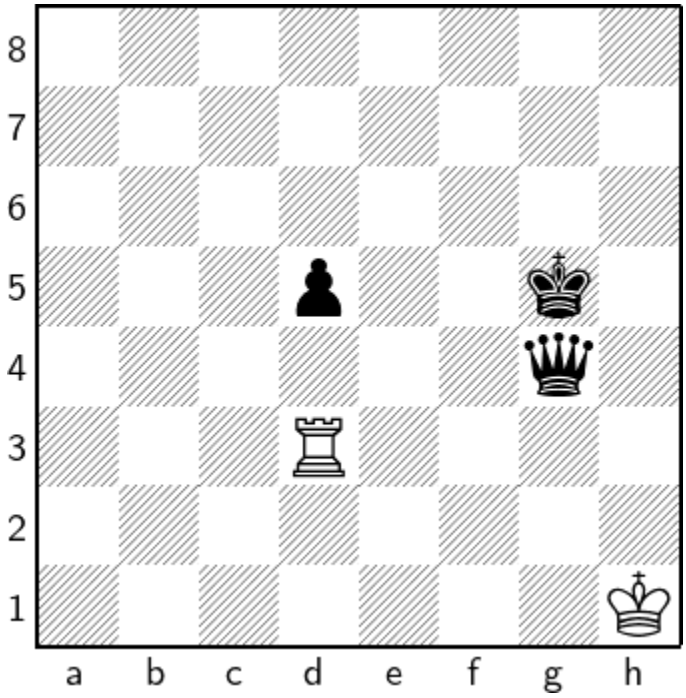


1 ♖g3 ♗×g3+ 2 ♔h3 g1♕

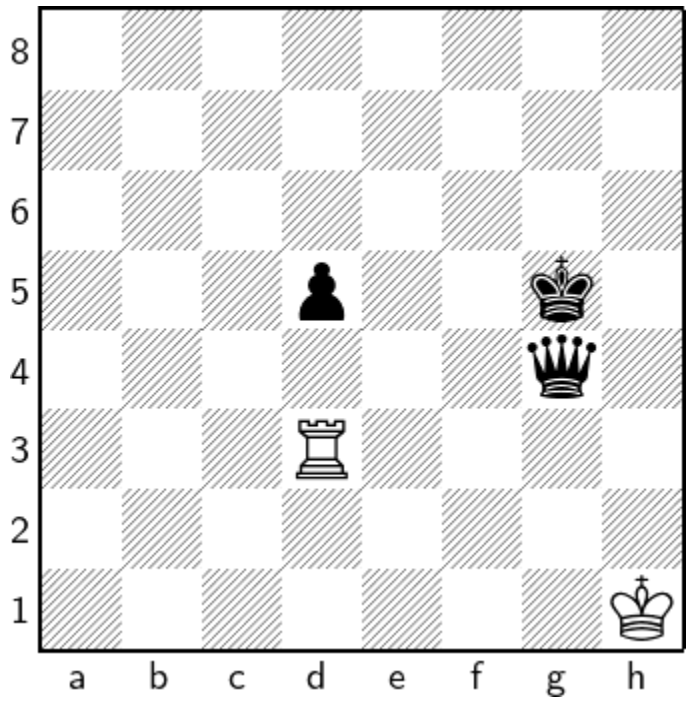


1.192 ?

1.192.1 ?



1 ♖g3 d4 2 ♔g2 d3 3 ♔f1 ♕×g3

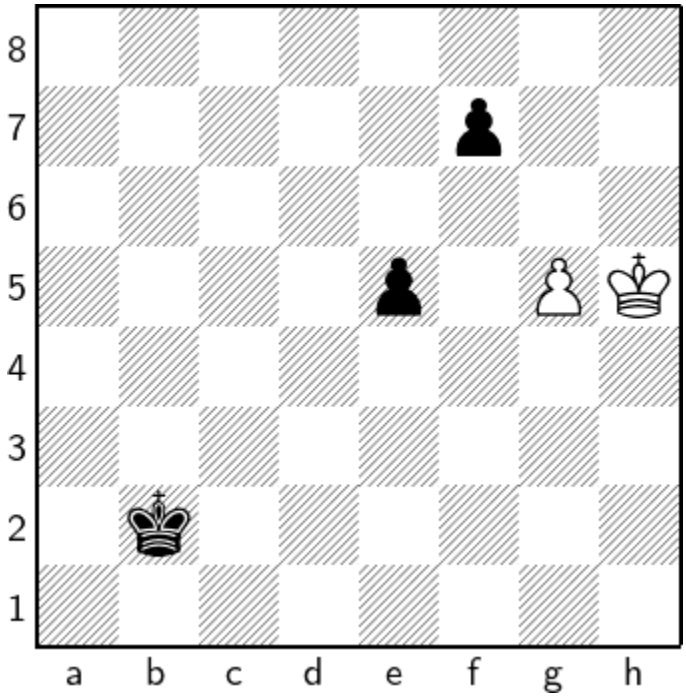


1 ♖g3 d4

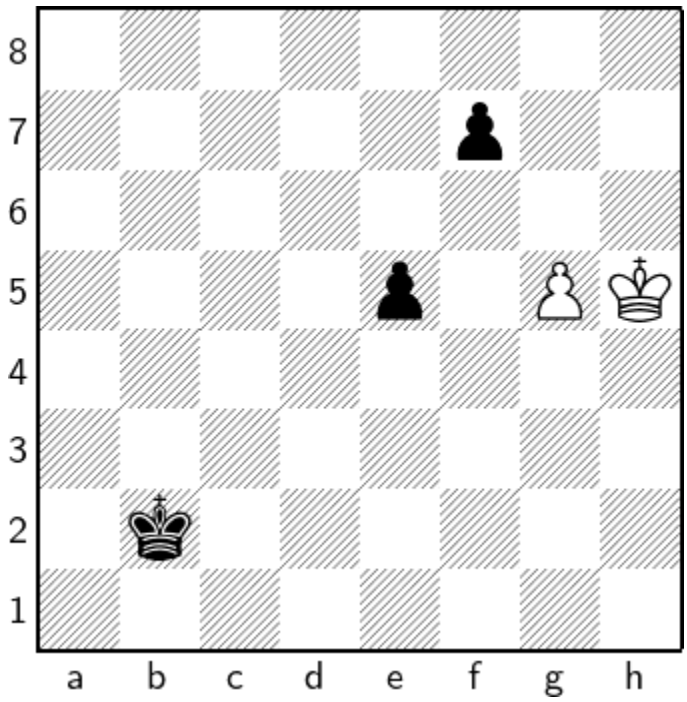
1…♕×g3

1.193 ?

1.193.1 ?

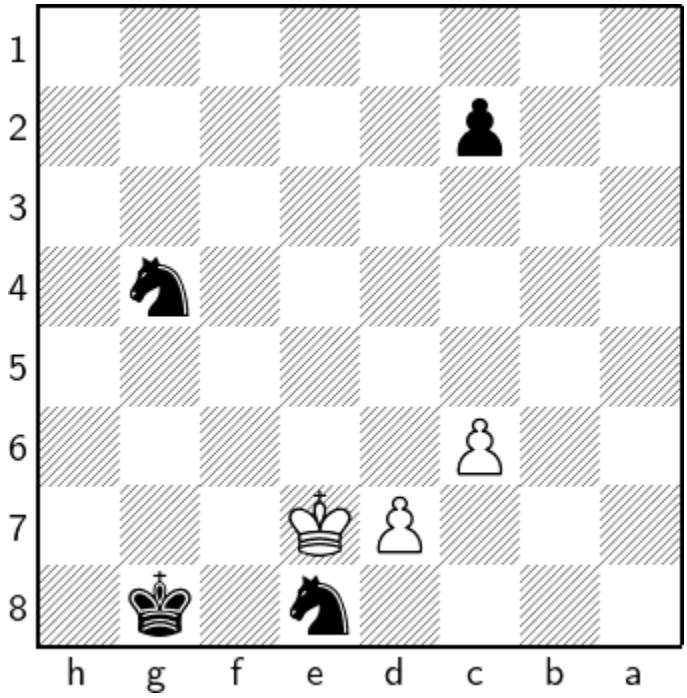


1 ♔g4 ♔c3 2 ♔f5 ♔d4 3 ♔f6 e4 4 ♔×f7

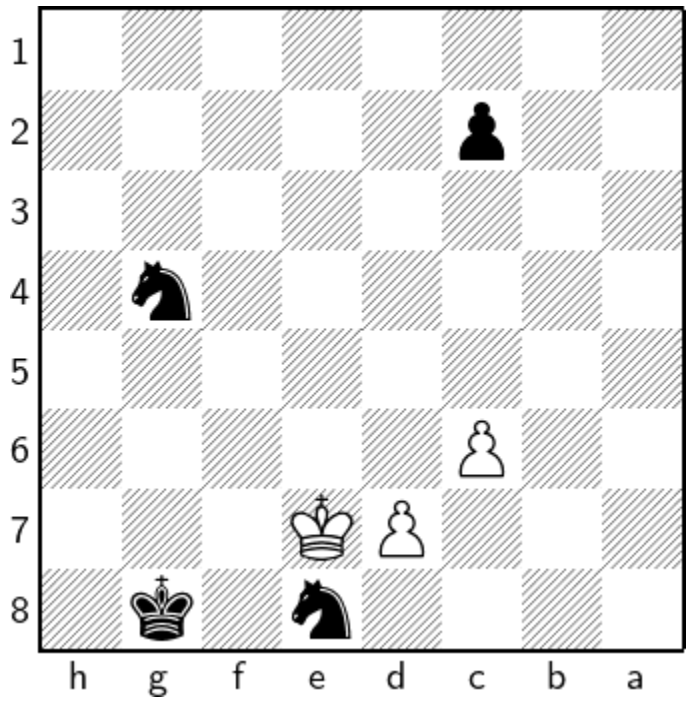


1.194 ?

1.194.1 ?

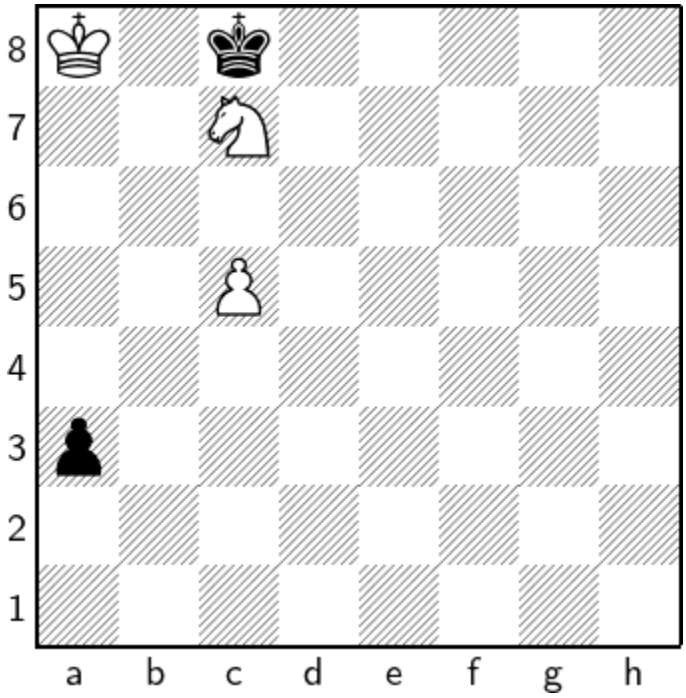


1…♘gf6 2 c7 ♘d5+ 3 ♔×e8 c1♕ 4 d8♕ ♕c6+ 5 ♕d7 ♘f6+

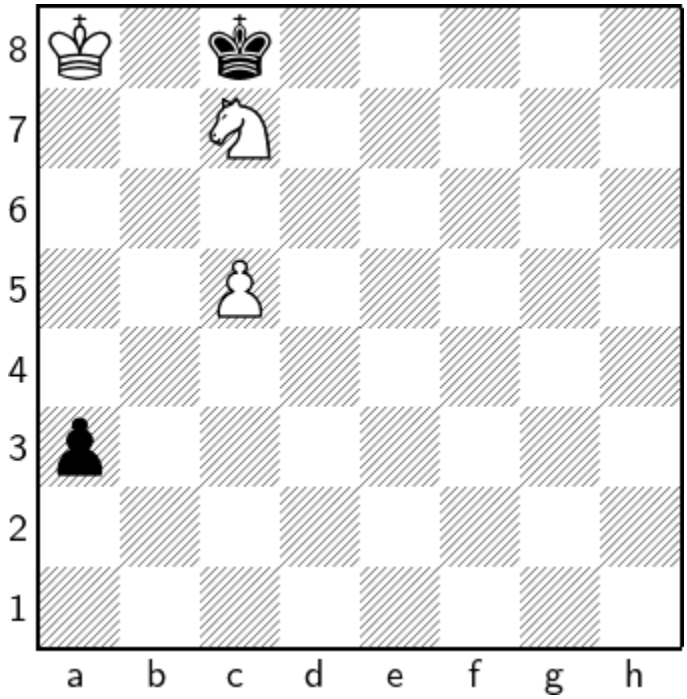


1.195 ?

1.195.1 ?

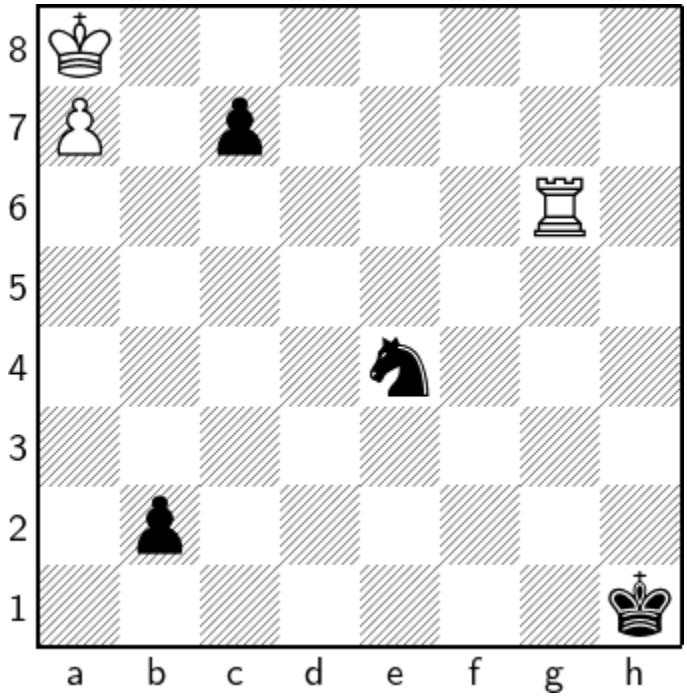


1 ♘b5 a2 2 c6 a1♕+ 3 ♘a7+ ♔d8 4 c7+ ♔×c7

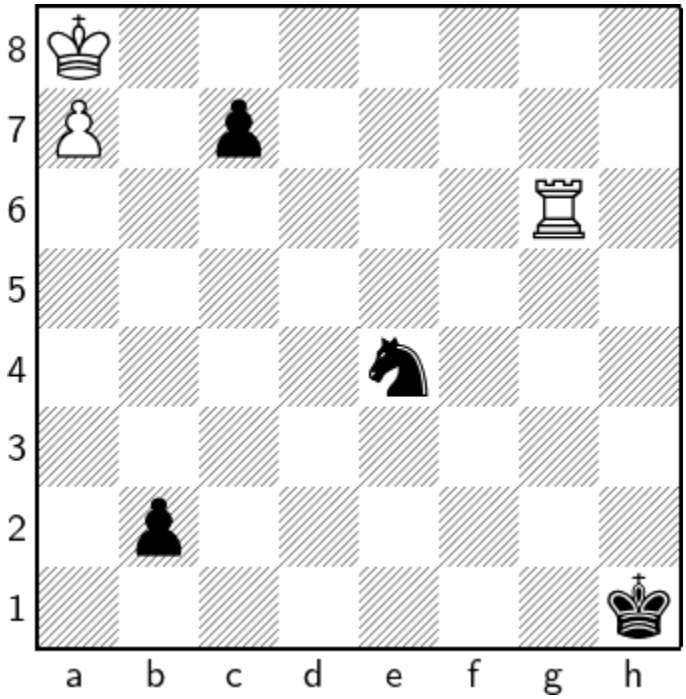


1.196 ?

1.196.1 ?

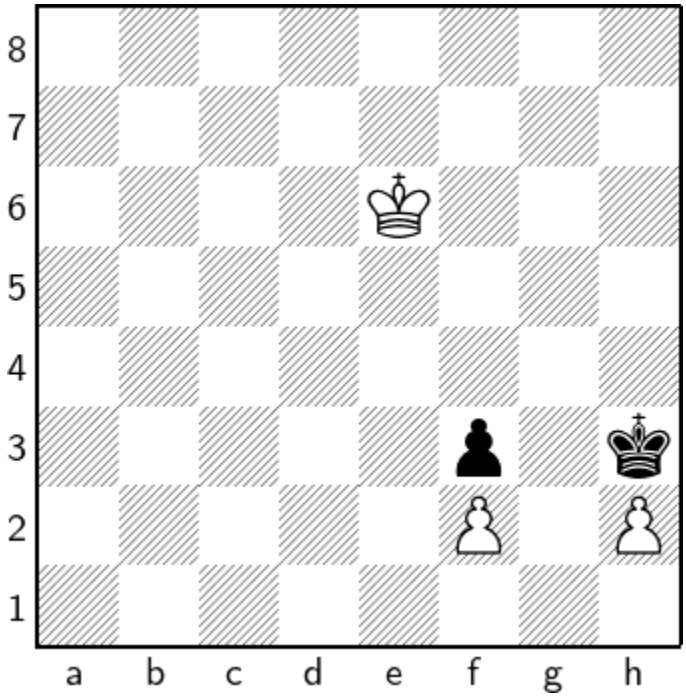


1 ♖g3 ♘×g3 2 ♔b8 b1♕+ 3 ♔×c7

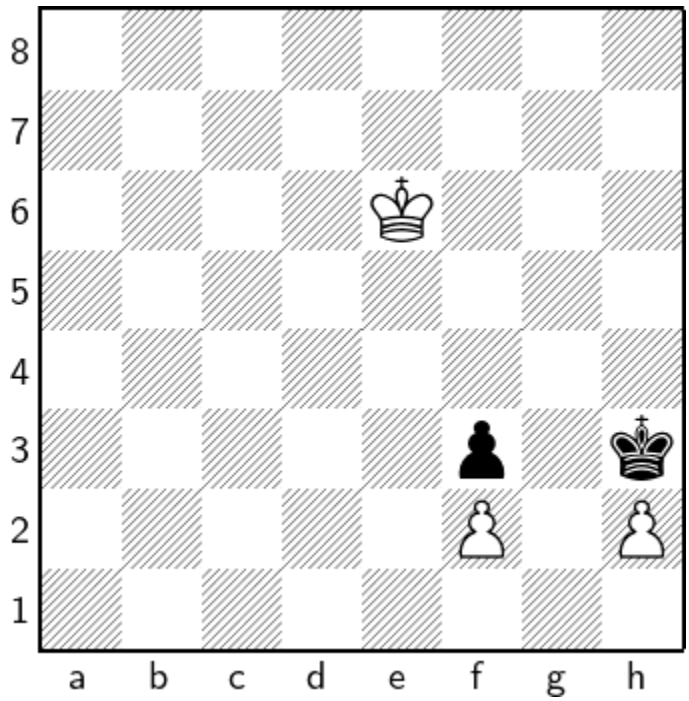


1.197 ?

1.197.1 ?

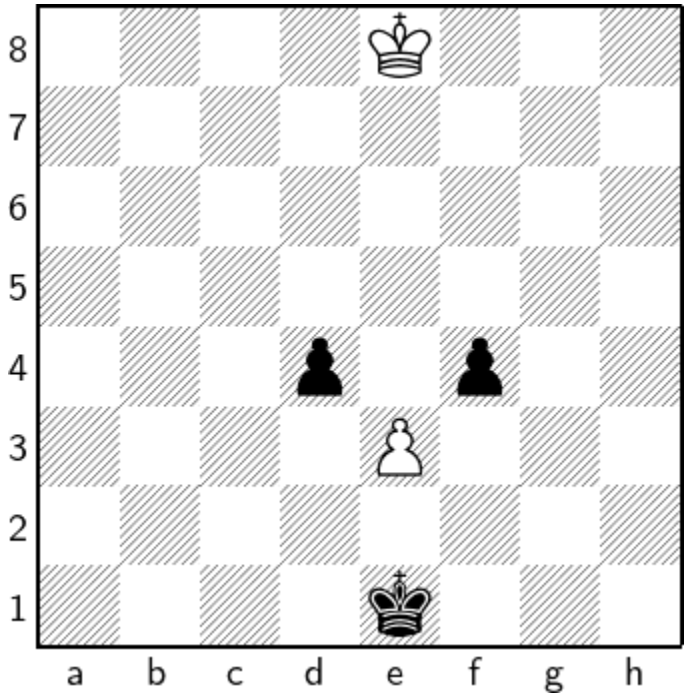


1 ♔d5 ♔g2 2 h4 ♔×f2 3 h5 ♔g2 4 h6 f2 5 h7 f1♕ 6 h8♕

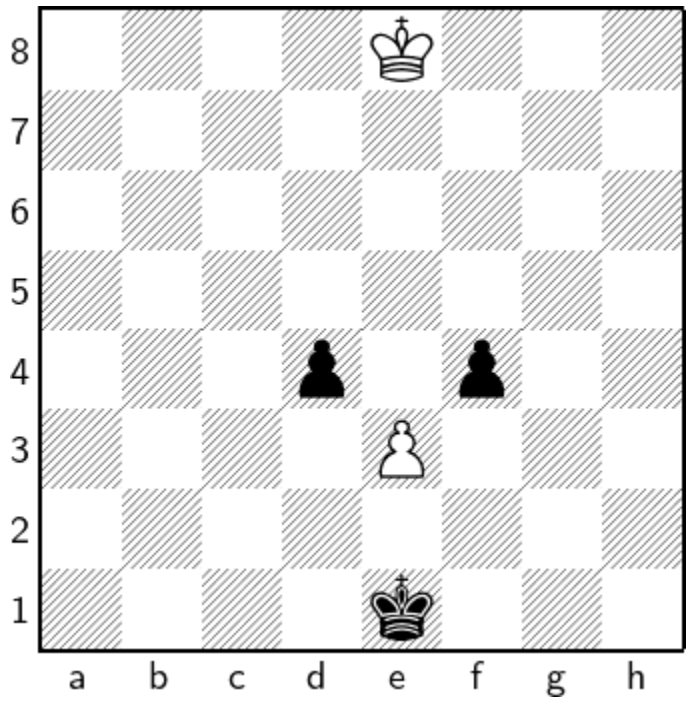


1.198 ?

1.198.1 ?

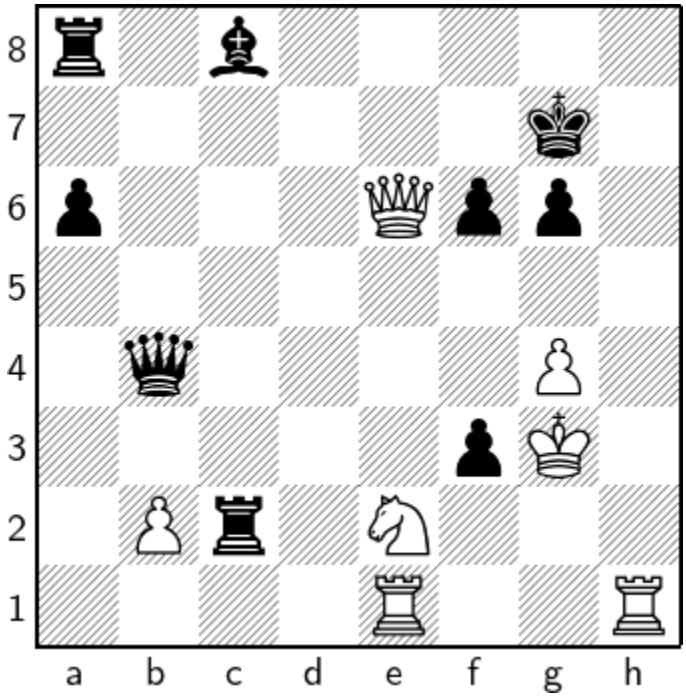


1 e×f4 d3 2 f5 d2 3 f6 d1♕ 4 f7

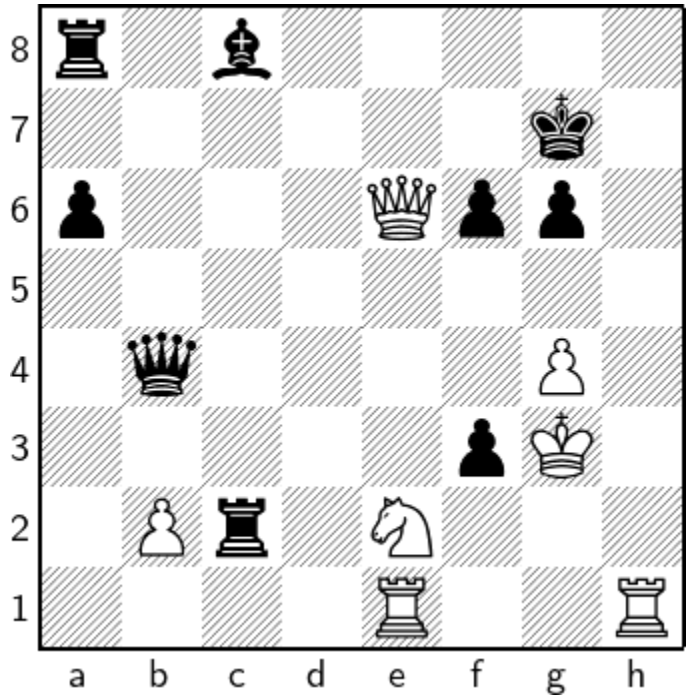


1.199 ?

1.199.1 ?



1 ♖h7+ ♔×h7 2 ♕f7+ ♔h6 3 ♖h1+ ♔g5 4 ♖h5+ g×h5 5 ♕×h5#



1 ♖h7+ ♔×h7

1…♔×h7 2 ♕f7+

2 ♕f7+ ♔h6 3 ♖h1+ ♔g5 4 ♖h5+ g×h5

4…g×h5 5 ♕×h5#