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Two knights versus pawn(s)



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editor Derek Roebuck

derek roebuck@hotmail.com

Patzer ChessP O box 957Subiaco 6904Australia

ABN 81 316 037 926

Two knights versus pawn(s)

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In this supplement I will try to show you some interesting aspects of those extraordinary endings where one player has two knights, and the other has only one or more pawns.

This material combination rarely arises in practical play, and if your only goal as a reader is to improve your results in competition chess, then stop now, and go and read something else. If you respect the beauty and mystery of chess, however, you may well enjoy this supplement.

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Derek Roebuck

Introduction

The ending with two knights against one (or occasionally more) pawn(s) has fascinated and infuriated chess players for centuries. I can think of four reasons why you should learn a little about this admittedly very rare combination of forces.

1. It's actually quite interesting.

2. It's not nearly as hard as it looks, although to be fair it does look very hard indeed.

3. It is probably (slightly) more useful than you think. Even if it never comes up in one of your games, it can teach you a lot about how the king can cooperate with a knight.

4. It's an important part of chess culture, and ignorance of your culture is not considered cool.



Promotional poster for *Duck Stab* (The Residents, 1978)

My job is to persuade you that the first three reasons are true. We hold the fourth to be self-evident.

In this supplement I will explain the ideas behind this ending, using a step-by-step approach, starting with checkmate and working backwards. We will look at the early stages of the winning method last – they are not exactly intuitive, as you will find out later.

Conventions

In all of the examples white will have the two knights and black will have the pawn(s).



I have adopted a slightly unusual meaning for the common chess symbol "!?", which in these pages will be used to indicate a move that is sensible for humans, even if it is not the "correct" (tablebase) way in terms of minimizing the number of moves until checkmate. "!" will be used to indicate a move that is either difficult to spot, or is correct according to the database (and often both).

For example, the tablebase move in diagram 1 is 1. (5) c8!, with mate in another 21 moves. The idea is to redeploy the knight to e4 via d6, but these "wrong way" knight moves are impossible to memorise, and even harder to find at the board. For practical purposes, 1. 公g6!? would be a better plan. It costs us one move in the race against the 50-move rule clock, but we are human, and we need <u>concepts</u> to understand. The 6 f4+, and now after either 2... 2 h4 king is further restricted.

Organization of this supplement

The best place to start is with some basic rules for the side with the knights (white) and for the defender (black), followed by a look at the final stages of the checkmating process (page A7). This may seem to be the wrong way around, but it turns out that it is impossible to memorize a general winning method that applies to all positions. (As far as I can tell, there are no recent publications on the subject that even attempt to do this. For example, one textbook¹ gives two examples of this ending, in both of which the black king has already been confined to the edge of the board!)

We won't even try to remember a method. Instead, we will learn some tactical ideas to use in the earlier part of the process of confining the black king (page A11). These include a few obvious themes, as well as some that are quite subtle, and difficult to find in an over-the-board game.

We will then move on to practical examples (page A16) that use these ideas to reach the final stages.

Not all starting positions with two knights against a pawn are forced wins, and before simplifying to this ending we should have an idea of our winning chances. This is not a simple matter, as you will see in the section on Troitsky and his lines (page A29).

Next, we will examine some positions where black has two or more pawns (page A31). It is, of course, crucially important to understand when and how to simplify to this ending (page A37).

If you see a term in italics and can't remember its meaning, look it up in the Glossary (page A42). Finally, there is a Summary of the winning process (page A44), and five Test positions for you to try (page A46).

The stalemate problem

Most club players know that you can't <u>force</u> mate with two knights against a bare king.

¹ Balogh C, Mikhalchisin A. *Mastering minor piece endgames. Part 2.* Chess Evolution, 2016: 44-46

This material combination is not, however, an automatic draw. Article 5.2.b of the FIDE Laws of Chess² states that:

The game is drawn when a position has arisen in which neither player can checkmate the opponent's king with any series of legal moves.

This is not the case here. The white king and knights can drive the enemy king to the edge of the board easily enough, and if black is really dozy he or she can actually be checkmated there (diagram 2).



White can checkmate with **1**. ②**e6**#, but the black king's last move was from g7, so unless it was a capture it was an incomprehensible blunder.

A <u>forced</u> mate can only occur if the black king stands on a corner square, but white can only get the black king into a corner by going through a position where it is stalemated.



3 Stalemate in the corner

 \triangleright

1. 🖄 f6+

White can also try 1. 2h6+2h8, but it's the same problem.

1....**ģh**8

White has to move the knight from e6 to f7 to deliver mate, but 2. 2g5 and 2. 2f7 are both stalemate.

Another way of looking at this is that the definition of its move means that the knight must always alternate between light and dark squares, so there is no place it can stand where it both controls f8 and allows a onemove shift to f7 to checkmate. It would, therefore, make no difference if in diagram 3 the knight stood on d7 rather than e6.

The basic winning plan

White can only avoid the stalemate problem by using black's pawn. The pawn must not be allowed to move

² www.fide.com/FIDE/handbook/LawsOfChess.pdf

until the stalemate position has been achieved, or just before, and then white must deliver mate before black promotes, or at the latest on the next move (providing the new queen does not give check or pin the knight that was supposed to give mate).

All of the winning sequences in this ending involve the following steps.

1. *Blockade* the black pawn with one of the knights.

2. Force the black king into a corner, and restrict it to one or two squares.

3. Bring the *blockading knight* over and deliver checkmate.

Basic rules for white

This logic provides us with a few general principles:

1. <u>Never</u> capture a solitary pawn.

2. Prevent its advance (*blockade* it) with a knight <u>as soon as possible</u>.

3. If there are two or more pawns, then *blockade* the most favourable one (see page A31) and capture all the rest.

4. Sometimes, allowing the pawn to advance slightly (resetting the timer on the 50-move rule) may be advantageous.

5. It may be easier to mate in one of the corners in your own half of the board, because as the pawn advances the blockading knight gets closer to the corner, and is therefore better placed to help restrict the mobility of the black king.

Basic rules for black

1. Advancing the pawn (particularly if you can push it two squares) is rarely a bad idea, but if you have almost made it to 50 moves, you should not give up your best chance of a draw unless you absolutely have to.

2. The black king should try to stay in the centre, of course, but when it is forced back it should, in general, head for the corner furthest from the blockading knight.

Diagram 4 is an exception.



Here black should play 1... 2g2!, and stay in the corner. The pawn on f4 deprives white of the use of the g3 square, and because of this mate cannot be forced (see diagrams 5a to 5d). 1... 2g2e3 is a draw too, but only because of the 50-move rule.

3. If you have more than one pawn, try to force white into the least favourable capture(s), leaving you with the most advanced pawn.

The final stages

Various mating configurations exist (see diagrams 5a to 5d), but remember that, in the absence of nearby pawns, any reflection or rotation of these positions is equally valid.







The positions of the two knights are constrained by the need to control both g8 and h8. Note that the mate in diagram 5b can only be forced if the blockading knight is close enough to control f7 or f8, or the black king can escape. As previously noted, if black's pawn promotes on the move before checkmate it is crucially important that the new queen does not check white, or pin the knight that is going to give mate.

Let's modify diagram 3 very slightly.



6 Checkmate in the corner

⊳1

- 1. 🖄 f6+
- 1. 6h6+ also wins.
- 1.....ģh8 2. 🖄 d8
- Or 2. 约g5, of course.
- 2...a1響 3. 约f7#

The 2-square cages

If the black king can be confined to two squares (a corner square and one of the orthogonally adjacent squares) then any available mating sequence will be easy to calculate.



One winning method would be to bring the *blockading knight* to c6 with check, which traps the black king on a8. White then mates with the *free knight* on the b6 square, which it will reach in two moves, via d5 or d7, as appropriate.

Plan B is to bring the *blockading knight* to b6 <u>with check</u>, trap the king in the corner with 2c8+, and mate with the *free knight*:



8 The 2-square checkmate ▷►1

This position occurred (with colours reversed) in the game A. Bisguier – A. Matanović, Bled 1961.

The problem with white to move is that the knight needs to arrive on b6 with check. No manoeuvring with the knights can "lose" a move, so white *triangulates* with his king to transfer the move to black:

1. ⊈c6!

1...⊈a8

1...ģ b8 2. 🄹 d7 wins after either

2...\$a7 3. \$c7 or 2...\$a8 3. \$c8.

2. ģd6! ģb8

2...ģa7 3. ģc7

3. ☆d7 ☆a8 4. ☆c8 ☆a7 5. ☆c7

White gets back to diagram 8, but now it is black to move.

The 3-square cages

Strictly speaking, of course, there are no configurations of the white king and one knight that completely confine the black king to exactly three squares, so these are not (yet) true cages.



In each of the parts of diagram 9 black's king can still move to b8 and escape. The challenge for white is to prevent this potential escape and convert it into a 2-square cage. The method you need to use is probably the single most important tactical trick in this ending.

Converting three squares to two



10 The 3-square cage

⊳94

S.J. Solomon – M. Steadman, Canberra (Doeberl Cup) 2011

The winning method is as follows:

94. Øe6!

One of the *magic squares* (see diagram 11). White actually played 94. ②h5?, when black could have drawn after 94....堂g8 95. 堂e7 堂h7 96. 堂f7 堂h6, because his king escapes. Instead, black blundered with 94....堂h6? and was losing again after 95. ②g3 堂h7 96. ②f5 (the other *magic square*).

94…∲h6

94...\$g8?! or 94...\$h8?! would allow 95. \$g6, which gives white a direct path to a 2-square cage, and an easy win, as we saw above.

95. ⁄⁄⁄⁄⁄⁄⁄ g7!

This is the 3-square cage we saw in diagram 9c.



95…☆h7 96. ⊘f5 ☆g8 97. ☆e7!

This is the key to converting the 3square cage to a 2-square cage.



In diagram 10b, white cuts off the black king's escape from the corner by controlling squares with the free knight (" \times ") and the king (" \bigcirc "). The next step requires the use of the opposition.

97…☆h7 98. ☆f7

By controlling g6, white successfully reduces the cage to two squares.



White to move in this position could play $2e^{-6+}$ and $2e^{-6+}$.

98...∲h8

White is a tempo short of plan B (diagram 8). Instead, he or she must put the free knight on e6, cover h6 by moving the blockading knight to g4, and finish with 2 f8+, 2 f6 (covering the queen check as well as h7) and 2 g6#. This requires care.

99. 🖞 g6! 🖞 g8



The next two moves reach the same configuration we saw in diagram 10a (or 9c), rotated by 90 degrees.

100. ∅g7! **∲f**8

101. ģf6 ģg8 102. ∅e6 ģh7

102...\$h8 103. \$g6 is the same.



103. ģg5! ģg8 104. ģg6 ģh8 105. ģf7 ģh7



106. ⊘g4 f2 107. ⊘f8+ ☆h8 108. ⊘f6! f1'≝ 109. ⊘g6#

Tactical ideas

When you are sure that you know how to convert the *3-square cage* to a win, it's time to learn some useful tactical themes that crop up over and over again in this ending.

The magic squares

Each corner has two magic squares that the free knight can use to corral the black king (diagram 11). These lie a knight's move towards the centre from what Jesús de la Villa calls the "knight's dumb square"³, meaning b7, h7, b2 or g2.



11 The magic squares ("●")

The reason that the magic squares are so important is that the *free knight* stands on one in our method for reducing a *3-square cage* to two squares (diagram 10b). Now you know about the magic squares, you might deduce that in diagram 11a white has herded the black king into the wrong corner. The free knight can't go to either magic square, because the black pawn stands on one, and controls the other.



White lets the pawn advance, in order to be able to use the c5 square:

- 1. ∅̀d8! ⊈̀c8
- 1....\$a7 is met by 2. \$\black2 b4!

3…d5 4. ②d6 d4 5. 堂b6 d3 6. ②a6+ 堂a8 7. ②e8 d2 8. ②ec7# allows a quicker mate.

4. ②a6 d5 5. ③ac5 d4 6. ③d3!

This is an example of *changing the blockader* (see page A14).

6...∲b8 7. ⊘d6

The knight reaches the magic square, and white forces a conversion to the *2-square cage*.

³ de la Villa J. 100 endgames you must know,
5th edition. New in Chess, 2018: 58

Blocking the corridor

In diagram 12 white is set up to push black across to the h-file, and then into one of its corners. To do this, he or she must prevent black from escaping in a perpendicular direction to this push, in this case up or down the f-file. This can be done by blocking the corridor with the free knight.



12 Blocking the corridor

This position is mate in 36 moves, which means white doesn't have a lot of room for mistakes. So which of 1. \bigcirc e3 and 1. \bigcirc d4 does the job better?

1. ∅e3! ☆g6 2. ☆e6

White has already gained one file.

2...ģg5 3. ģe5



So 1. ②e3! was better, because it also covers g4, allowing white to block the corridor a second time.

The rake

When black's king is trapped on the edge of the board, white can use this manoeuvre of the free knight to scrape it towards a corner (diagram 13).



Now, blocking the corridor by 1. 6 c4 $\oint a7$ just repeats after 2. $\oint d6$. Instead, white prevents the king's escape via a5 in a different way.



With this second step, the knight moves to the magic square, the 2square cage is obtained, as we saw in diagram 10b, and mate follows:

2...☆b8 3. ☆d7! ☆a8 4. ⊘e5! g4 5. ∅)c7#



Here white needs to play 1. 🖄 c3! or 1. 约b5!?, because after 1. 约b3?! 2a3 the second step of the *rake* would be 2. c5??, which is an obvious blunder.

Plugging the holes in the wall

The foundations of the wall are laid by the free knight but, depending on the configuration of the pieces, the blockading knight may also be able to contribute. This wall will almost always be incomplete, and at times will be only rudimentary, but this is how you should look at the process of rounding up the black king (diagram 15). In the early stages, it is vital to remember that the white king's role is to plug the holes in the wall.



15 Plugging the holes

1. ☆c5! ☆b3

 $\sqrt[6]{}$ d6 \triangleq a5 5. $\sqrt[6]{}$ b7+ is a rapid route to the 3-square cage, and 1... 2 as 2. 0f4 2a6 3. 0e5 transposes to the main line after 7. $\oint c5$.

2. ∅)d4+

Easy to find if you remember the wall.



If black tries to escape with $9... \textcircled{2}{0}d8$ white will simply plug the hole again with 10. $\textcircled{2}{0}d6$.

Changing the blockader

White can sometimes give a check with the *blockading knight* and then immediately replace it with the *free knight* (as with 2. $2d^{+}$ and 3. $2f^{+}$ in the previous example), but this is rarely necessary.

It is much more common for the change to concede one or more squares of advancement to the black pawn (see diagram 11a). In diagram 16 the opportunity to achieve the *3square cage* is just too good for white to pass up.



1. ②g7! f5 2. ②e6 f4 3. ②f3 查b8 4. ②c5 查c8 5. ②b7 查b8 6. ②d6 查a7 7. 查b5 查a8 8. 查b6 查b8 9. ②e5! f3 10. ③d7+ 查a8 11. ②e8 f2 12. ③c7#

The staggering knight manoeuvre

This three-step manoeuvre uses the fact that the free knight can block the corridor from two different squares to push the black king along the edge and closer to a corner.



⊳1

White must have the *opposition* for this idea to work.

1. ⊘c3!?

The only way to keep the king out of a4, but how can white's *free knight* deprive the black king of a5, without letting it escape via a4?

1...☆a6 2. ⊘d1 ☆a5 3. ⊘b2!

From this square the knight again controls a4, but additionally it can now move directly to a square that controls a5:

3...∲a6 4. ⊘c4

Achieving the blockade

Sometimes it is obvious how best to achieve the blockade in the first place, but in some positions it can be very difficult to find the correct approach. Because of the *50-move rule*, it can be extremely important to get this right (diagram 18).



This is a particularly difficult example because of the position of the black king, and because the pawn has a choice of first moves.

1. ⊘e4+

Here it is useful for the knight to give a check on its way to the blockading square.

1...∲f4 2. ⊘ef6‼

This makes the difference between mate in 38 and mate in 40, which might be crucial in a real game. The point is that 2. 2 gf6?! allows black to paralyse the knights by playing 2... 2 e5, forcing white to waste time using *triangulation* to push the king away from its ideal position, for example 3. 2 c5 2 e6 4. 2 d4 2 f5 5. 2 d5 2 f4 6. 2 d6.



With best play 1. ②e6!? leads to a 50-move rule draw. Note that white can't use the king as a temporary blockader, because 1. ⓒh6? ⓒb7! is an immediate draw.

Practical examples

Now we know how to convert the 3square cage to a win, let's look at a couple of real games to see how white can mate from an easy position, where the black king is already confined to a relatively small zone near a corner.



J.N. Sugden – E. Green Hastings 1971/72

The pawn is well back, and in any case we know that the king can't continue to blockade it, so the winning idea has to be...

54. 🕁 f6!

The priority is to constrain the black king.

54…g5 55. ∅]e2 g4

Black doesn't have to play this immediately, because white can't prevent it, but if he or she plays 55...
g8 white has an important trick: 56. ②e8! 查f8 57. ②g7 查g8 58. ②e6! (as in the main line).

56. ∅g3 ģg8 57. ∅e8 ģf8





The 2-square cage.

61. 🖄 h5

61. ②f5 g3 62. ②e7+ 查h8 63. ②d8 g2 64. ②f7# is also winning.

61...g3 62. ∅f6+ ∲h8 63. ∅g5 1:0



Chaves – C. Rotta Brazil 1992

Here it is necessary to transfer the *free knight* from h4 to the *magic square* f4 (effectively analogous to e6 or f5 in diagram 10).

121...ģg1

The alternative 121... 堂h3 is very instructive. White wins with 122.
 愛g6! The knight needs to go to f4 to trap the black king in the corner, and after 122... 堂h2 123. ②f4 we have returned to the main line.
 121... 堂h1 loses to 122. 堂g3 堂g1 123. ②d2 b3 124. ②hf3+.

122. Øg2

The other method is harder to find, perhaps because the white king has to move away from the corner after 122. $2d^2$



122…**∲h**2

123. ⊘̃f4 ģg1



124. ģe2

 b1營 128. ②ef2#, just as in the note above.

Forcing the king to the edge

A few minutes playing an engine will convince you that a king and knight struggle to force a lone king to the edge, to put it mildly. White has two feeble factors in his or her favour: the black pawn may, at least initially, deprive its king of an escape route, and the blockading knight, although immobile, may control some useful squares (diagram 22).



In this position the knights protect each other, which means the black king cannot gain time by attacking them. The "×" symbols indicate the most important squares controlled by the knights. Note that the pair of mutually-protected⁴ knights creates two useful 3-square barriers that we can use to channel the black king to the side of the board. In this position, there is an obvious "hole" in the wall at b5 that needs to be filled to prevent the black king's escape.

1. ģ**c6!**?

This is actually not the tablebase move, but we are humans, and we need to understand patterns.

1...☆c4 2. ☆b6 **☆**d4

If black plays 2... \$\cong b3\$, hoping to evacuate the king via e1, white has 3. \$\cong b5\$. See Line 3 (page A26).

3. ☆b5 ☆e4 4. ☆c4



4…∲e5

4...☆f3 4. ☆d4 ☆g3 5. ☆e4 ☆g4 is Line 2 (see below).

5. ģd3 ģf5 6. ģd4 ģg5 7. ģe4

⁴ "Hoof holding", as Rich Wiltshir would say.



Now black has a choice of directions to send the king – 7... 2 h6 (Line 1), or 7... 2 g4 (Line 2).

Line 1: black plays 7... 🖕 h6



This option looks unappealing for black, but still requires some skill from white.

8. 🕁 f5

Plugging the hole.

8...∲g7 9. ⊘e6+!



9...∲h6

If 9... 堂f7 white can construct an impenetrable wall from e6 to e8 with 10. ④ec7! 10... 堂g7 (anything else gives white the 3-square cage on a platter) 11. 堂g5 堂f7 12. 堂h6! 堂g8 13. 堂g6, and the rest is easy.

10. 🖄 f6!

With black having voluntarily put the king on the edge, behind a 4-square wall (h4 to h7) built by the king and the free knight, and because the black pawn is so far back, white can win by temporarily releasing the blockade.



10...d5 11. ∅g4+ ໘h5

The king can't go the other way, because of 11... 堂h7 12. 堂f6 d4 13. 堂f7 d3 14. ②f8+ 堂h8 15. ②e5 d2 16. ②eg6#.

12. ∅f4+ ☆h4 13. ∅e5! d4

14. ⊘̃fd3 ∲h5



Now white uses *the rake* to deprive the black king of the h5 square:



The next step is critical. White wants to manoeuvre the black king into the corner, and to do this will need to set up a position with his king on f4 and black's on h4, with black to move. This requires *triangulation*. If you didn't know this you would never find white's next move:

17. ģe5! ģg3 18. ģe4 ģh3 19. ģf3 ģh4 20. ģf4



The next step is to take h4 from the black king, using the *staggering knight manoeuvre*. This only works because on the second of the knight's three steps it stands on a square (g7) that controls h5, preventing the king's escape, and when the king is forced back to h3 it moves to a square (f5) from which it covers h4.



Take a look at white's "wall". It looks a bit draughty, doesn't it? Still, with the king on g4 and the free knight on g3, it would be impervious, so:

24. 🍲g4 🍲g2 25. 🖄g3 🍲g1

Now black's king has been limited to three squares (diagram 23g). White has to convert this corner trap into the 2-square cage, and must of course avoid the catastrophic blunder 26. rightharpoonup has have a statement of the catastrophic blunder blunder26. <math>rightharpoonup has have a statement of the catastrophic blunder b



⁵ Actually, in this case the blockading knight could also go to f4.

Remember the *magic squares* (diagrams 11 and 23h).



23h

One of the knights (not always the free knight) must go to one of the two appropriate critical squares in order to attain the 2-square cage. In this example, the knight obviously can't go to e3, where it could be captured by the black pawn, so it has to be f4.⁵

26. ∅e2+!? ☆f1 27. ∅ef4



We have reached the 3-square cage.

27...ģg1 28. ģg3 ģf1 29. ģf3 ģg1 30. ģe2 ģh2 31. ģf2



Now it's the 2-square cage.

31...☆h1 32. ②e5 d3 33. ②g4

Immobilising the black king on h1, and forcing...

33...d2 34. ∅e2 d1∅+!?

Worth a try, because 34...d1響 35. 公g3 is mate.

35. **∲**g3



Zugzwang! Black has covered the checkmate square, but the king is stalemated, so the knight has to move.

35...∅c3 36. ∅f2#

Line 2: black plays 7.... 🖄 g4



In response to the 7... 2g4 attempt, white should immediately reorganise the wall by *blocking the corridor*.

8. ∅)e6! **ģ**g3

8...堂h5 9. 堂f5 堂h4 10. ②d4 堂h5 11. ②f6+ 堂h6 12. ②e6 reaches Line 1 (diagram 23b).

9. ģf5 ģf2 10. ∅d4



10…⊈e1

11. ☆f4 ☆f2

11...ģd2 12. ģe4.

12. 🖄 f6!



A luxury white can afford because the d-pawn is so far up the board.

12...d5

A good practical choice, but in any case there is no way to improve the

13. Øg4+!?

The human move, although 13. 公d7! is faster.

13…**∲**e1

13...堂f1 14. 堂e3 堂e1 15. ②f2 堂f1 16. ②d3! leads to the *3-square cage* in the h1 corner.

14. ģe3 ģd1



Looking at the state of white's wall it is clear that the free knight needs to get to d3 to control b2 (and b4).

15. ∅f2+ ☆c1



This is not the usual 3-square cage, because white is using the *blockading* knight to control e1: 18... 堂g1 19. 公ce1!? 堂f1 20. 公g2 堂g1 21. 公gf4, and the end is near.

16. ∅d3+ ☆d1



Note that if it were black to move this position would be stalemate.

17. ⁄⁄c5!

White is planning to force the king to go towards h1, reaching the finale we saw in the last section. Black will now have to choose to go one way or the other.

17…**ģ**e1

The problem for black with 17... oc118. oe2! is the same as we saw with 16... ob1 – white will use simply use the opposition to create a 3-square cage on the a-file, for example 18... ob2 19. od2, and now 19... oa3 20. oc3 or 19... ob1 20. od3.

18. 🖄 cb3!

White establishes a wall to force the black king towards the h1 corner.



If it was white to move here, he or she could use the *staggering knight manoeuvre* (公c1-a2-c3) to shunt the black king towards h1. So let's just *triangulate* to lose a move:

18…**ģ**d1

19. 读f4 读e1 20. 读f3 读d1 21. 读e3 读e1 22. ②c1 读d1 23. ②a2 读e1 24. ②c3 读f1



Now white uses *the rake* to gain another square:

25. ∅d1 ģe1 26. ∅f2 ģf1 27. ∅d3



This is diagram 24d, but with the black king (to move) now on f1. White should ensure that it is always possible to play 2f3 whenever the black king goes to f1. This means keeping the knight on d3 and changing the blockader: 27…☆g2 28. ⊘f5! d4+ 29. ☆f4 ☆f1

In the event of 29... $rac{1}{2}h2$, white wins with 30. $rac{1}{2}g4!$, as we saw in diagram 23f.



30. ∲f3!?

Not the fastest method, but easy to remember.

30…☆g1 31. ⊘h4!? ☆h2

32. ∅g2 ģg1 33. ∅gf4



33…∲f1

33.... \$\dotshiften h2?! 34. \$\dotshiften f2 is a short cut.

34. Øe6

White puts the free knight on d2, and sends the blockading knight to f4.

34...∲g1 35. ∅g5 ∲f1 36. ∅e4 ∲g1 37. ∅d2 ∲h2



38. ②f4! d3 39. **勎f2 勎h1 40. 勎g3** 勎g1 41. ②h3+ 勎h1 42. ②e4 d2 43. ②ef2#

Line 3: black plays 2... 🖄 b3



This is a poor relatively poor attempt, because black is voluntarily heading for the edge of the board.

3. ģb5 ģc2







6...∲d1

6... 堂f1 turns out to be an even worse version of Line 2, from black's point of view: 7. ②e2! 堂e1 [7... 堂g2 8. ②df4+! 堂f1 9. ②d3! 堂g2 10. 堂f4] 8. ②ec3 堂f1 9. ②e4 堂e1 10. ②f2 (you will of course recognise this as *the rake*) 堂f1 11. ②f4!



The annotated diagram clearly shows that both 11... $\textcircled{0}{2}$ g1 12. $\textcircled{0}{2}$ d3! and 11... $\textcircled{0}{2}$ e1 12. $\textcircled{0}{4}$ d3+! $\oiint{0}{5}$ f1 13. $\oiint{0}{5}$ f3 permanently incarcerate the black king. Black could always try 11...d5 12. $\textcircled{0}{2}$ d3 d4+, but after 13. $\oiint{0}{5}$ f3 $\oiint{0}{2}$ g1 14. $\oiint{0}{2}$ e2! the 2-square cage appears again.

7. ģd3 ģc1

7... 2e1 8. 2h3! (you will find this move if you remember that you can't let the king get out via f2) 2f1 9. 2e3+!



White can let the pawn advance, because the further down the board the blockading knight stands the more effectively it can help constrain the black king. Notice how efficient the current configuration of the knights is in this respect. 9... 0e1 10. 0f5 d5 [10... $\oiint{0}$ f1 11. $\oiint{0}$ e3] 11. 0d4 $\oiint{0}$ d1 [11... $\oiint{0}$ f1 12. $\oiint{0}$ e3 $\oiint{0}$ g2 13. 0f2! $\oiint{0}$ g3 14. 0f5+!] 12. 0f2+! $\oiint{0}$ e1 13. $\oiint{0}$ e3 (*the rake* again) $\oiint{0}$ f1 and now 14. 0d3 wins.

8. ⊘b6! d5 9. ⊘e2+ ☆d1 10. ⊘d4



The annotated diagram is sending black a clear message: go to the kingside.

10...☆e1 11. ☆e3 ☆f1

11...ģd1 12. 🖗 a4 ģc1 13. ģe2.



12. 🖄 a4 🍲 g2



13. ☆f4 ☆h3 14. ☆g5 ☆g3 15. ⊘b2!



There is no way to prevent the knight from coming to d3.

15...☆f2 16. ☆f4! ☆e1 17. ☆e3 ☆f1 18. ∕∆d3

White wins as in Line 2 (see diagram 24g).

Test answers

X1 1. ∅f5+ ☆e6 2. ∅e3!

X2 1. ∅c4 (or 1. ∅d5) ∳g2 2. ∅e3+

X3 1...ģb7! 2. ģd6 ģa6!

X4 1. ☆e7 ☆g7 2. ☆e8! ☆g8 3. ⊘f5!

X5 1. ∅ce5+ ໘g7 2. ∅d7

Troitsky's lines

The (first) Troitsky line

Ignoring the 50-move rule, white can win if he or she can securely blockade the pawn with a knight before it has advanced past a certain square. The square depends on the file the pawn stands on. The points at which white must be able to halt the progress of the pawn were first worked out by A.A. Troitsky⁶ (diagram 26).



26 The (first) Troitzky line

Unfortunately for white, in over-theboard (OTB) chess, white is not absolutely guaranteed a win if the pawn is blockaded on the Troitsky line, because in some cases the process requires more than 50 moves before the blockade can be released, and the pawn advances.⁷

Conversely, black is not *guaranteed* a draw if the pawn crosses the line – it depends on the position of his or her king. But in general, it's a draw.

The second Troitsky line



27 The second Troitsky line

The problem with the 50-move rule is addressed by the second Troitsky line (diagram 27).

If a pawn standing on or behind one of the dots can be blockaded by a white knight, white can force a win within fifty moves. If the pawn can be blocked on or behind one of the squares marked with an " \times ", white can force a win within fifty moves more than 99 percent of the time.

⁶ The name Троицкий can be transliterated in various ways. You may also see "Troickij" or "Troitzky".

⁷ Under the ICCF rules for correspondence chess, the 50-move rule does not apply when there are seven or fewer pieces remaining (the kings and any pawns are included), and white could claim a "tablebase" win.

What is the practical importance of the Troitsky lines?

I think we can conclude that for OTB chess (at any level) there is no point in trying to memorize the Troitsky diagrams. Firstly, figuring out whether or not you can <u>force</u> a win (or save a draw) is unlikely to be crucial to deciding whether or not to simplify to this ending. Secondly, it is memory space that could almost certainly be more advantageously used for something else.⁸ Finally, as we have seen, the diagrams don't always give an accurate answer anyway.



Alexey Alexeyevich Troitsky (1866-1942)

Alexey Troitsky was undoubtedly one of the greatest ever composers of endgame studies. Here is a famous example of his art:



28 A.A. Troitsky 1909

⊳1

1. ∕∕⊇b6‼ ∰e8

Black has to prevent 2. 營e3#, but 1...營xb6 2. 營g1+ loses the queen.

2. ⊘̀d7‼ ☆̀c4

White wins the black queen and the game.

Troitsky died of starvation during the siege of Leningrad in the Second World War. Although many of his letters have been preserved, it seems that none of his unpublished studies survived.

⁸ Where *did* I leave the spare batteries for the remote control?

Two or more pawns

If black has two or more pawns, then white has to choose one to blockade. The best pawn will be the one that stands the furthest back, irrespective of which file it stands on, because the second Troitsky line is essentially horizontal (diagram 27). The position of the black king may complicate matters, because the blockading knight must always stand on a square that it cannot be driven away from (see diagram 30). Take as long as you want to capture the other pawns you are unlikely to be troubled by the 50-move rule during this phase. White should be cautious, however: all three results are possible.

Two connected pawns

Connected pawns give black the best chance of winning.



It should be very obvious that this is a composed study, not a position from a game. White has a very narrow path to a draw:

1. 🖄 d6 b4

1...a3 2. ∅c7‼ a2 [2...☆xc7 3. ∅xb5+ and 2...b4 3. ∅a6+ draw immediately] 3. ∅cxb5 a1.



This is a draw, because the only way the black king can escape from its prison (a8 and b8) is if the queen can stalemate the white king, forcing a knight to move. As long as white does not allow his king to be trapped on the h-file (when black can use zugzwang to force it to h8) this will never happen (4. \$\circ{1}{2}\$"g6!). This is not the standard method of drawing with two knights against queen! (See page A36 for the main idea.)

2. 🖄 c4 a3

2...b3 3. ② ab6 and 2... 堂 xa8 3. ② b6+ are obvious draws, but 2... 堂 a7 3. ② c7! and 2... 堂 b7 3. ③ ab6 a3 4. ② d7 require a little thought.



10. 🖄 d4!



Two isolated pawns

This study illustrates an extremely important point about the *blockade*. The knight can only do its job if it stands on a square where it is safe from the black king, or can be protected, at least until the king can be forced away.

1. ģg6!

A temporary blockade with the king rarely works, but it is needed here, because 1. (2)c4? g6 2. (2)f6 (2)f4 is a draw – white can't move his king, and if he moves the knight from g5 black can just run the g-pawn.

1...∲f4 2. ⊘̀c4

2. ②e6+? 堂e5 3. ②c7 堂d4 and now white will have to give up a knight for the b-pawn.

2...∲g3 3. ⊘e5 b3

4. ∅c4 ∲f4 5. ∅f7



5…∲g4

The king can't go to e3 or e5, and e4 and f3 are "mined", because of 6. ∅d2+, winning the b-pawn.

6. ∅d2 b2 7. ∅e5+ ☆f4 8. ∅ec4

White picks up the b-pawn and puts a knight on g5.

Doubled pawns

A second, doubled, black pawn may actually help white.



White is winning in this position, but if you remove the h5 pawn black has a draw by the 50-move rule.

Three pawns



⁹ Shakhmaty v SSSR 1980; (2): 27-28

As Troitsky points out in a letter dated 9 December 1930,⁹ white needs to blockade the h-pawn with the d4-knight, then win the other two pawns. In fact, in this and the next example (diagram 33) white's plans are thwarted (in over-the-board chess) by the 50-move rule, but for practical purposes these positions are still interesting.

1. ⁄⁄⊇f3

Why blockade the h-pawn? It's simple really. Black's pawn chain can only be attacked at its base (unless black rashly advances any of the pawns), and when white has captured two pawns only the h-pawn will remain.

1...☆h7 2. ⊘h2 ☆g6 3. ☆g4



3…∲f7!

3...h3? loses. White plays 4. ∅ f1!
(this is not the only winning move, but it is the easiest to understand)

☆xh3 and can now blockade one of the less advanced pawns.

4. ☆f3 ☆g6 5. ☆e4 ☆h5



32b

⊳6

6. ②f3

6. 🖄 d5? g4 forces white to give up one of the knights to prevent promotion.

6...∲g6 7. Øg1

7. ②h2 repeats moves.

This is the same position as diagram 31a, except the knight is now on g1 instead of h2.

White can now advance his king.

11...☆f7 12. ☆f5 **☆g7 13.** ⊘e6+ ☆f7 14. ⊘c5

Black has no way to defend f6.

14...ģg7 15. ⊘e4 ģf7 16. ⊘xf6

Now white has won the f-pawn, the gpawn will fall next move.



1. 🖄 h6

Troitsky correctly noted that 1. \bigcirc e3 is also good. Black to move could draw with 1... \bigcirc e5 or 1...g4.

1...☆e5 2. ∅g4+ ☆e4!



3. ⊈xf6

Troitsky's analysis is inaccurate here, because his recommended move 3. xf6+ allows black a forced draw (without even needing the 50-move rule) after 3... f3! 4. xg5+ g3 5. ②ge4+ 堂g2, when white has no way to blockade the pawn.

3…∲f3 4. ∲xg5

White has blockaded the pawn on h4, but, as we know from the second Troitsky line (diagram 27), this is not enough to win when the 50-move rule is applying.



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M. Taimanov – B. Milić
Belgrade (Yugoslavia-USSR match) 1956
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In desperation, black looks to get rid of white's remaining pawns.

69....⁄公xg2?

69...②xh3+! 70. gxh3 g4+ would have been a better method.

70. 🖄 xg2 g4 71. 🖄 d2!?

71. hxg4 fxg4!? is a draw (this is generally the case when black has connected pawns on the fifth rank) but so is 71...h3+!, of course.

71...gxh3+



72. ģh2

An interesting choice. Another way to keep a chance of winning would have been 72. 2xh3 2e5 73. 7f3+2e4 74. 2g2.



74...h3+ 75. $\oint f^2 h^2$ 76. $\bigwedge xh^2 f^4$ 77. $\bigotimes f^3$. Taimanov presumably rejected the immediate capture in favour of a future $\bigotimes xh^3$, thereby guaranteeing that the rear h-pawn could advance no further than h4. The problem with either capture is that, with best play, black has a draw under the 50-move rule.

72...ģe5 73. ⊘c5 ģd4 74. ⊘e6+ ģe3 75. ⊘c4+ ģd3 76. ⊘e5+?!



76...∲e4!

Now black doesn't even need the 50move rule.

77. ∅f7 f4 78. ∅eg5+ ∲e3! 79. ∅xh3 f3! 80. ∅e5 ∲e2 81. ∅g4 ∲f1



White's king is restricted to the squares h2, h1 and g1, because the free knight (on g4) cannot force the black king off the f1, e1 and e2 squares. The blockading knight (on h3) cannot move at all, because of ...h3. A draw was agreed after a few more moves.

Black promotes a pawn

There are, of course, some positions where black can promote. In this case white has a simple drawing technique, easy enough to be worth remembering, even though this material combination will probably never occur in any of your games.



Black has just promoted on b1. White's knights are in the ideal configuration, <u>not</u> protecting each other, but instead standing side by side. Because the king is close to the knights black has no way to win. (In fact, white only loses if the king stands on one of the squares marked with a " \star ".) White has various ways to proceed. One line could be:

1. ☆d6 響b5 2. ☆e7 ☆c8 3. ☆f7 響b7+ 4. ☆g6

Black is making no progress.

Simplifying to two knights versus pawn(s)

Most positions with two knights versus pawn(s) arise from endings with a single rook, bishop or knight against the two knights. Knowing when and when not to simplify to this ending may be very important.



S. Karjakin – S. Sevian Isle of Man 2018

Five moves earlier both sides had a queen and a rook, and endgame theory was probably far from the players' minds. Now the smoke of battle has cleared, and black has a problem because of his weak pawns on b3 and a6. On the other hand, white's pawns don't look secure either, and if black can give up his knight to capture them all, he will have a good chance of a draw.

45…∲f6! 46. ⊘xb3 ⊘e4!

Black prevents 47. 2 c5 and restricts the approach of the white king.

47. ∅e3 ģe5 48. ģg2 f5 49. ∅c1 f4 50. ∅c2



Now comes a sequence of moves that clarifies black's drawing plan.

50...☆xd5 51. ⊘b4+ ☆c4 52. ⊘xa6 ☆b5 53. ⊘xc7+ ☆xa5



White might think "I can never promote the b-pawn, so my only hope of winning is to reach two knights versus pawn. To do this, I will need to force black to give up the knight for the b-pawn. This means that black cannot be allowed to attack the pawn with both the king and the knight. I currently have an effective barrier along the third rank, and this prevents the approach of the black king. If the black threatens to attack the pawn with the knight, I can play $6 d^3$, and then push b3, with another barrier, this time on the fourth rank. So why not leave the pawn where it is and blockade one of the kingside pawns as soon as possible? "

The player of the black pieces might think "It is going to be very difficult for white to stop me from sacrificing my knight for the b-pawn, so why don't I forget about it and push my fand g-pawns as quickly as possible?"

The objective truth is that this is a draw, but white's only hope of a win is if black mishandles the defence of two knights versus pawn.

54. 🖄 d3!?

54. ②e6 runs into black's main plan: 54...g5 55. 登f3 ②d2+ 56. 堂e2 ②c4 57. b3 f3+ 58. 登xf3 g4+, with an easy draw.

54...⊘d2 55. ⊘e6 ∲b5

55...g5 also draws, but requires very accurate play from black: 56. 0xg5 0c4! 57. 0f3! 0a4! (...0xb2 on this move or the next draws, but only because of the 50-move rule) 58. $\oiint{0}$ f2 $\oiint{0}$ b3 59. 0d4+ $\oiint{0}$ a2 60. b3 0d2 61. b4 $\oiint{0}$ a3 62. b5 0c4 63. 0c5 $\oiint{0}$ b4, and the b-pawn eventually falls.

56. ②exf4



56...⊘c4

56...g5 looks to be an easier route: 57. ②e2 ②c4 58. b3 ②a5 59. b4 ②c6 60. ②c3+ 堂b6 61. b5 ②d4, and black captures the pawn.

57. ∅e6 ∅xb2 58. ∅xb2 g5 59. ∅d4+ ☆c5 60. ∅f5 g4



The pawn is comfortably past the Troitsky lines, and black can draw, even without the help of the 50-move rule. All he has to remember is to retreat towards a8. If you look at the mating configurations on page A7 you will see that the white king stands on b6 (in which case ...g1^w will come with check) or on c7 (when a queen on g1 prevents b6#). The only exception is diagram 5b, but this requires the blockading knight to be very close. The black king is going to be safe on a8.

61. ②g3 读d4 62. 读f2 读c3 63. ②d1+ 读d3 64. 读e1 读c4 65. 读d2 读d4 66. ②c3 读c4 67. ②ce2 读d5 68. 读c3 读c5 69. ②f4 读c6 70. 读c4 读d6 71. ②d3 读c6 72. ②e5+ 读d6 73. 读d4 读e6 74. ②c4 读f6 75. ②e3 读e6 76. ②ef5 读d7 77. 读d5 读c7 78. ③d4 读d7 79. ②e6



So far, so good. Now black can safely play 79... 2008, for the reasons explained above. His next move, however, makes things slightly more difficult:

79…∲e7?! 80. ⊘c5!

Psychologically powerful. White is practically daring black to go to d8.



81…**ģf6**??

81... 2 e8! was the only drawing move. If you know that a8 is the correct corner you should have no trouble defending this ending, but now white can build a wall.



88…**ģ**g8

If 87... $\oint g6$ the wall allows white to play 88. $\oint f8!$

88. **ģ**f6



A. Karpov – G. Kasparov Tilburg 1991

Although less common, many other paths may lead to two knights versus pawns.

44. <u>≗</u>xg4! h5

Kasparov declines to simplify with 44... 賞 xg4?? This would have lost, although after 45. 公 xg4 h5 46. 公 f6!? h4 47. 公 d5! 堂 g7 48. 公 f3 堂 f7 49. 公 g5+ 堂 g6 50. 公 h3 堂 f5 51. 堂 xg2 堂 e4 white has to find the "only" move 52. 公 hf4!

45. <u>ĝ</u>f3

Karpov was never going to fall for 45. 夏xh5?? 罩h4 46. 夏e2 罩h1+ 47. 亞xg2 罩xe1, with a draw.

45...d5

This move and black's next signal his intention to keep open the idea of sacrificing rook for bishop and reaching two knights versus pawn.

46. ∅́)3xg2

46. \bigcirc xd5? Ξ b1 is a draw, and 46. @ xd5 is similar to the game.

As Speelman¹⁰ points out, white has to decide how many pawns to take. If he leaves the d-pawn, black can't sacrifice the rook for the bishop, but this requires a knight to blockade the pawn, and a piece to protect the knight. Karpov goes instead for three minor pieces versus rook.

50. 🧕 xd5 🚊 a5





¹⁰ New in Chess 1991; (8): 25-29

White carefully avoided the drawn endgame after 51. h3 \amalg xd5!, but was unable to win with bishop and two knights against rook. Essentially, as long as black's king heads to the corner of the opposite colour to the bishop the draw is guaranteed.





Even in deceptively simple positions white needs to be careful. In this study any sensible move by the c4knight maintains the win.

1. ②ce5!?

(1) The composition was based on the mistaken idea that white's only winning move was 1. e4? In fact, this leads to a draw after either capture of the knight, for example 1...bxc4 2. e5 0d2! 3. 0h4!? c3 4. 0f3+ 0e2!(Soukup-Bardon considered only 4...0e3?) 5. 0d4+ 0d3! 6. 0b30c4! 7. 0c1 0d5, or 1...0xc4 2. e5 b4 3. e6 b3 4. 0e5+ 0d5! (4...0c3? 5. 0d3!! was the composer's idea) 5. e7 b2 6. e80 b10. (2) Even 1. ②b6?! wins: 1... 堂d4 2.
堂d7 堂e3 3. 堂c6, and now both
3...堂xe2 4. 堂xb5 and 3...b4 4.
②d5+ lead to two knights versus pawn positions that are very winnable for white.



1...b4 2. ⊘d3 b3

3. ∅)c5

Even the preposterous 3. 堂d8?! wins here, but Soukup-Bardon analyses only 3. ②gf4?, when black can draw with 3...堂d2! [not the composer's 3...g5, when white has 4. ②h5!! 堂d4 5. ②g3 (building a wall) 堂e3 6. 堂d7 b2 7. ②xb2 堂f2 8. e4] 4. e4 g5!

3…∲d2

3...b2 allows 4. ∅a4+, and 3... ☆c2
4. ∅xb3 is also easily winning for white.

4. ∅xb3+‼ ☆xe2

Now it's mate in 67 with two knights versus pawn. White will, therefore, need to restart the 50-move clock at the appropriate time.

Glossary

2-square cages

When the white king and the free knight permanently confine the black king to two squares at a corner of the board, a 2-square cage has been achieved. Various configurations are possible:



3-square cages

It is not possible for the king and free knight between them to confine the black king to any three squares on the board. Nevertheless, if there is only one escape route from a group of three squares extending along a row or file, white can force the conversion to a 2-square cage.



Consequently, the achievement of a 3-square cage is an important goal for white.

50-move rule

The game is drawn if one player successfully demonstrates that the last 50 moves by each side have been played (or are about to be played) without a pawn move or a capture.

Blockade

White can only win if the advance of the black pawn is restrained by a knight that must stand in its way.

Blockading knight

The knight that obstructs the advance of the black pawn.

Changing the blockader

A manoeuvre where the blockading and free knights exchange roles. Examples include diagrams 24c, 24g and 24j (pages A23 to A26).

Free knight

The knight that does not blockade the black pawn, but instead works with its king to force the opposing king towards a corner of the board.

Magic squares

This is a set of squares (two for each corner of the board) that are used by the free knight to convert the 3-

Patzer

square cage to the 2-square cage. See for example diagram 23i (page A21).

The opposition

When the kings stand on the same rank or file, separated by one square, they are said to be in opposition. In general, it is better <u>not</u> to have the move in this configuration. For an example of how to use the opposition see diagram 10b (page A9).

The rake

A knight manoeuvre where white deprives the black of one square when it is confined to an edge of the board.



White "drags" the black king towards the h8 corner with 1. ②g6, forming a hook-shaped wall (g6, g5, g4 and h4). After 1... ③h6, white may also play 2. ②f4, covering h5, forcing the black king even closer to the h8 corner.

41

The staggering knight manoeuvre

A three-step knight manoeuvre, which deprives the black king of one square when it is confined to an edge of the board.



White has already restricted the black king, but now wants to deprive it of the h4 square. After 1... (2) h3 2. (2) e8 (2) h4 3. (2) g7 the knight once again covers h5, and the black king must retreat with 3... (2) h3, allowing 4. (2) f5, covering h4.

42

Triangulation

A king manoeuvre intended to lose a tempo, usually in order to achieve the *opposition*. For an example of this tactic, see diagram 23d (page A20).

The wall

White needs to build a barrier to contain the black king, and force it towards a 3-square cage. This barrier is made up of squares controlled by the knights (indicated in some of the diagrams by the " \times " symbol) and the king (" \bigcirc ").

Zugzwang

A situation in which the obligation to make a move is a serious, often decisive, disadvantage.

Summary

This ending is rare, but there are some simple ideas that we should learn in case the possibility ever occurs in one of our games.

White wins if he or she can blockade the pawn (with a knight) far enough up the board. It is nice to have a rough idea of where the blockade has to be, but for practical purposes at patzer level it doesn't matter – white will try to win, and black will exploit any inaccuracy to get a draw by the 50-move rule.

White's winning method has five steps:

Step 1. The pawn must be securely blockaded by a knight

Knight security comes first. Do not let the black king fork the knights. If the pawn is initially blockaded by the white king, it can advance at least one square when blockading duties are transferred from the king to one of the knights.

Step 2. The black king must be forced to one edge of the board

This is the hardest part of the plan. The free knight and the king must cooperate precisely, using those imaginary walls to restrict black's king. The other (blockading) knight may sometimes contribute by covering a potential escape square.

Step 3. The 3-square cage

The king and the free knight together construct a barrier of squares that forces the black king into a corner.

Step 4. The 3-square cage must be converted to a 2-square cage

This technique is actually quite easy to learn. The white king may need to use triangulation in order to gain the opposition.



1. ⁄⁄b]g7!

The 3-square cage.

1…☆h7 2. ∅f5! **☆g8 3.** ☆e7! ☆h7 4. ☆f7!

The 2-square cage.

Step 5. The blockading knight now approaches, and mate is delivered

This may be very easy, but if the pawn's promotion square is going to be unfavourable (from white's point of view) it may be necessary to shuffle the king and the free knight around before releasing the blockade.



1. ģg6 ģg8 2. Øg7! ģf8 3. ģf6 ģg8 4. Øe6! ģh7 5. ģg5 ģg8 6. ģg6 ģh8 7. ģf7 ģh7

White has set up the checkmate by transferring the free knight from f5 to e6, a square from which it can check the king on h7.

8. 🖄g4 f2 9. 🖄 f8+ 🍲 h8 10. 🖄 f6

Covering black's potential check with the newly-promoted pawn.

10...f1 11. ⊘g6#

Defending against two knights

Push your pawn(s) as far as possible. Look for opportunities to threaten the blockading knight – defending it will cost white time and the 50-move rule is your friend. You can only be mated in a corner. Stay as close to the centre as possible, but when you are forced to an edge always try to get to the corner furthest from the blockading knight.

Practicing this endgame

There is an excellent free online endgame trainer that has dozens of examples of two knights versus pawn. Don't be discouraged if you find these exercises difficult or even impossible at first. You will succeed with practice!

https://chess-endgametrainer.firebaseapp.com/list/3/3



Test positions

For each position write down your first move, the reply that you feel would be most challenging, and your second move. The answers are on page A28.



How does white prevent black's king from bolting through the hole at d5?



What's the quickest way to win?



What is black's only drawing plan?



Black has the opposition, so how can white make any progress?



This should be easy!





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Patzer ChessP O box 957Subiaco 6904Australia