# The Chess Endgame Studies of Richard Réti : Rooks and pawns 

John Beasley, 14 January 2012, latest revision 5 August, minor correction 15 September

4.1 (Münchner Neueste Nachrichten, 1928, correcting a setting in Hastings and St Leonards Post, 1923) is another of Réti's most famous studies. Try 1 Rd1, getting as far away from the Black king as possible: no, 1 ...d4 (see 4.1a), with 2 Kf 7 Ke 43 Ke 6 d 3 and the Black king will crowd the rook and force the draw, or 2 Kd 7 Kd5 2 Kc 7 Kc 5 and White is no further forward, or 2 Rd 2 Ke 43 Kd 6 d 3 , or 2 Rh 1 and again $2 \ldots \mathrm{~d} 3$.

The solution is $\mathbf{1}$ Rd2/Rd3 (we'll look at this dual in a moment) d4 2 Rd1, reaching 4.1a with Black to play. If now 2 ...Kd5 then $\mathbf{3} \mathbf{K d} 7$, and whichever file Black moves to White will come down the other (say 3...Ke4 $4 \mathrm{Kc} 6 \mathrm{~d} 3 / \mathrm{Ke} 35 \mathrm{Kc} 5 \mathrm{Ke} 3 / \mathrm{d} 36 \mathrm{Kc} 4 \mathrm{~d} 27 \mathrm{Kc} 3$ ); if instead 2...Ke4 then 3 Kd 6 etc similarly.

But what about the dual Rd2/Rd3 at move 1? According to Mandler in Studie, Réti deliberately chose this setting, even though conventionally sound settings were available, because of its simplicity and charm. He was not worried about the inaccuracy at move 1, because in his opinion White's first and second moves should be treated as a unit, and no other realisation was as cogent as this little four-man position.
4.2 (M 19 corrected)


White to play and hold the draw
4.2a


1 e4 Re2 2 c 4 , after $5 \ldots \mathrm{Rc} 4$
4.2b


1 e3, after 4...Rc3

White's e-pawn is under attack in 4.2 (Shakhmatny Listok, 1929, correction by Maizelis) and the natural move is 1 e 4 , but this fails: $1 . . \mathrm{Re} 2$ with 2 c 4 Rxe 43 Kb 4 Kb 24 Kb 5 Kc 35 c 5 Rc 4 (see 4.2a) 6 c 6 Kd 47 Kb 6 Kd 5 8 c7 Kd6 and the pawn has been hunted down, or $2 \mathrm{Kc} 4 \mathrm{Rxe} 4+3 \mathrm{Kd} 5 \mathrm{Re} 8$ (rooks normally belong behind passed pawns, but here 3...Re1 only draws, 4 c 4 Rc 15 c 5 Kb 26 c 6 Kb 37 Kd 6 Kb 48 c 7 Kb 59 Kd 7 etc, and the rook must go in front of the pawn where it can gain time by checking) $4 \mathrm{c} 4 \mathrm{Rd} 8+5 \mathrm{Kc} 5$ (holds out longest) Rc8+ $6 \mathrm{~Kb} 4 \mathrm{Ka} 2 / \mathrm{Kb} 1$ (but not $6 \ldots \mathrm{~Kb} 2$, when 7 c 5 gives a position equivalent to 4.1 a with the rook's side to move) 7 c 5 Kb 2 (now we have the same position with the pawn's side to move) and wins as in the analysis of 4.1.

So do we ignore the e-pawn, and play say 1 c 4 ? No, $1 \ldots$ Rxe2, and if 2 c 5 then $2 \ldots$...Re4 preventing either king or pawn from advancing further (if the pawn advances to c6, it strays too far from its king, and ...Re6 followed by ...Rc6 picks it up); alternatively, 2 Kb 4 Kb 23 c 5 Rc 24 Kb 5 Kc 35 c 6 Kd 4 again hunting down the pawn.

This leaves 1 e3. Can this be possible? Remarkably, it can. 1...Re2 2 c4 Rxe3+ 3 Kb4 Kb2 4 c5 Rc3 (see 4.2b) $5 \mathbf{K b 5}$ and the rook is blocking its king's path to d 4 . To win, Black must play, in some order, ...Re2, ...RxP, ...Rc~, ..Kb2, ...Kc3, and ...Kd4. After 1 e4, his move to the c-file is ...Rc4, and he can do this; after 1 e 3 , his move to the file is ...Rc3, and he cannot. It is one of the more ingenious ways of forcing a "pawn-one".

Réti had everything except the Black rook one file to the right, but in 1956 Chéron and Maizelis found a refutation starting $1 \ldots \mathrm{Ka} 2$. Maizelis suggested the simple correction above. Chéron preferred to move the Black rook to a2, introducing some additional play, but this turned out to allow a second refutation.

4.3 (Tijdschrift v. d. NSB, 1922, correction) is a puzzler. Try 1 Ke3: no, $1 \ldots \mathrm{Kg} 32$ Rf5 g4 $3 \mathrm{Ke} 2 \mathrm{~h} 34 \mathrm{Kf1} 1 \mathrm{Kh} 2$ $5 \mathrm{Rg} 5 \mathrm{~g} 36 \mathrm{Rg} 6 \mathrm{~g} 2+7 \mathrm{Kf} 2 \mathrm{Kh} 1$ with a draw. Try 1 Rf 5 , when $1 \ldots \mathrm{~g} 42 \mathrm{Kf} 4 \mathrm{~g} 33 \mathrm{Kf} 3 \mathrm{Kh} 24 \mathrm{Rg} 5$ wins: yes, but 1 ...Kg4 2 Rf1 Kg3 3 Rg1+Kf2 4 Rd1 h3 5 Kf5 Kg3 (but not $5 \ldots$..h2, when 6 Kg 4 wins) 6 Rd3 $+\mathrm{Kh} 47 \mathrm{Rd} 4+\mathrm{Kg} 3$ holds out. The only move to win is $\mathbf{1} \mathbf{R d} \mathbf{2}$ (the reason for choosing the d-file will appear), and the main line defence is $\mathbf{1} . . . \mathrm{Kg} 3$. Nothing else is better; if $1 \ldots \mathrm{~g} 6$ then $2 \mathrm{Kf} 3 \mathrm{~g} 4+3 \mathrm{Kf} 2 \mathrm{Kh} 24 \mathrm{Kf1}+\mathrm{Kh} 15 \mathrm{Rd} 4$ etc, and Mandler also gives $1 \ldots \mathrm{~g} 42 \mathrm{Ke} 3$ with $2 \ldots \mathrm{~g} 53 \mathrm{Rd} 4 \mathrm{Kg} 34 \mathrm{Ke} 2 \mathrm{~h} 35 \mathrm{Kfl}$ or $2 \ldots \mathrm{Kg} 33 \mathrm{Ke} 2 \mathrm{Kg} 24 \mathrm{Rd} 4$.

After $1 \ldots \mathrm{Kg} 3$, play continues $\mathbf{2} \mathbf{R d} 3+\mathbf{K g} 2$ (or $2 \ldots \mathrm{Kg} 43 \mathrm{Ke} 3 \mathrm{Kg} 34 \mathrm{Ke} 2+\mathrm{Kg} 25 \mathrm{Rd} 4 \mathrm{Kg} 36 \mathrm{Rd} 7 \mathrm{etc}) \mathbf{3} \mathbf{K f 5}$ h3 4 Kg4 h2 5 Rd2+ Kg1 6 Kg3 threatening mate (see 4.3a), and only $6 \ldots h 1 \mathbf{N}+$ offers hope. Now $\mathbf{7} \mathbf{K f} 3$ gives 4.3b, and we see why the rook had to go to the d-file at move 1 ; if it were on any other file, Black could escape by $7 \ldots \mathrm{~g} 4+8 \mathrm{Kxg} 4 \mathrm{Nf} 2+9 \mathrm{Kf} 3 \mathrm{Nd} 3$. As it is, however, the knight will have to go back to h1 ( $9 \ldots \mathrm{Nh} 3$ would be met by 10 Kg 3 attacking it and threatening mate), and White will win. The move that holds out longest from 4.3b is in fact 7...g6, after which White repeatedly loses a move to bring the g-pawns forward: 8 Rg2+ (simplest) Kf1 9 Rh 2 Kg 1 ( $9 \ldots \mathrm{~g} 4+10 \mathrm{Kxg} 4$ with $10 \ldots \mathrm{Nf} 2+11 \mathrm{Kf} 3$ or $10 \ldots \mathrm{Kg} 111 \mathrm{Rd} 2$ ) $10 \mathrm{Rd} 2 \mathrm{~g} 4+11 \mathrm{Kxg} 4$ Nf2+ 12 Kf3 Nh1 13 Ra2 (say) g5 14 Rd2 etc.


A study like 4.3 has a certain practical value, and the same will be true of 4.4 (composed in 1929, and first published in Mandler's 1931 book). Try 1 Rf8: no, 1 ...f3 2 Rf4 b4 3 Rxg4 b3 4 Rg1 f2 5 Rf1 b2 6 Kg7 Kd4 $7 \mathrm{Kf6} \mathrm{Kd} 3$ threatening $8 \ldots \mathrm{Kf} 2$ (see 4.4a), and if White tries 8 Rb 1 Black will play $8 \ldots \mathrm{Kc} 2$ instead. Correct is 1 Rg8, after which 1...g3 2 Rg4 b4 3 Rxf4 b3 4 Rf1 (White has unimportant alternatives from here onwards) g2 5 Rg1 b2 6 Kg7 Kd4 7 Kf6 Ke3 gives 4.4b. Black again threatens to attack the rook and win it for the pawn, but White can counter by playing $\mathbf{8} \mathbf{R b 1}$ ready for $8 \ldots \mathrm{Kf} 29 \mathrm{Rxb} 2+$; and if Black switches his attack to the other side, $\mathbf{8} . . . \mathrm{Kd} 3$, White plays $\mathbf{9}$ Rg1 and Black still cannot advance. If the pawns are only four files apart, they and their king can overwhelm the rook; if they are five files apart, they cannot.


The natural move in 4.5 (Kölnische Volkszeitung, 1928) is 1 Kxg 2 , but it fails: $1 \ldots \mathrm{Ke} 42 \mathrm{Kf} 2$ and now not $2 \ldots \mathrm{Kd} 3$, when 3 Kel would put Black in zugzwang and win easily (we would have $\mathbf{4 . 5 a}$ with an extra Black pawn on e2 but with Black to move), but 2...e1Q+ 3 Kxe1 (3 Rxe1 is no better, 3...Kd3 with ...Kd2 to follow) Kd 3 (see 4.5a) and White can make no progress ( $4 \mathrm{~K} \sim \mathrm{Kd} 2$, 4 Ra 1 Kc 35 Rc 1 Kd 3 repeating). By sacrificing one of his two pawns, Black has transferred the burden of moving to White.

The correct move is $\mathbf{1} \mathbf{K f} \mathbf{2}$ going for the e-pawn instead, and after $\mathbf{1} . . . \mathrm{Ke} 42 \mathrm{Kxe} 2 \mathrm{Kd} 43 \mathrm{Rg} 1 / \mathbf{R a 1}$ (simplest) Ke4 (after 3...Kc3 White wins easily, $4 \mathrm{Rg} 1 \mathrm{~K} \sim 5 \mathrm{Kd} 2$ etc) 4 Re1 we have 4.5b. (Playing 3 Re1 instead of $3 \mathrm{Ra} 1 / \mathrm{Rg} 1$ doesn't forfeit the win, but it wastes time; after $3 \ldots \mathrm{Ke} 4$ we have $\mathbf{4 . 5 b}$ with White to play, which isn't what we want, but White can manoeuvre to lose a move and get back to the same position with Black to play.) From $\mathbf{4 . 5 b}, \mathbf{4} . . \mathrm{Kd} 4$ can be met by $\mathbf{5} \mathbf{K d 2}$ since the rook prevents the Black king from doubling back to support the g-pawn, and $\mathbf{4} .$. Kf4 by $\mathbf{5}$ Kf2 similarly, but what about $\mathbf{4} . . . \mathrm{Ke} 5$ ? Obviously 5 Ke3, and if $5 \ldots \mathrm{Ke} 6$ then $6 \mathrm{Kd} 2+\mathrm{Kf5} 7 \mathrm{Rg} 1$ and White mops up both pawns.


In 4.6 (5th Honourable Mention, Tourney in honour of A. A. Troitzky, Zadachy i etyudy, 1929), an immediate king advance to support the b-pawn fails: 1 Ka5 Rf6 2 Rg 1 (2 Rb6 Rxb6 3 Kxg6 stalemate) Rf8 3 Ka 6 ( 3 Kb 6 Rf1 with a perpetual hounding of the rook) Rg8 4 Kb 5 (4 Kb6 Rxg6+ 5 Rxg 6 stalemate, 4 g 7 Rxg 75 Rxg 7 stalemate) Kxb75 Kc5 Kc7 6 Kd 5 Kd 77 Ke 5 Ke 7 (see 4.6a) $8 \mathrm{Kf} 5 \mathrm{Rf} 8+9 \mathrm{Kg} 5 \mathrm{Rf} 2 / \mathrm{Rf} 3$ with ...Kf8 to follow. Nor does 1 Rb6 work: 1...Rf1 (threat $2 \mathrm{Ra} 1+\mathrm{K} \sim 3 \mathrm{Rb} 1+\mathrm{K} \sim 4 \mathrm{Rxb} 6 \mathrm{Kxb} 6$ stalemate) 2 Ka 3 Rc 13 Kb 2 Rc 5 4 Kb 3 Rc 1 and the White king will stay shut in.

To win, White must get his king across to support his g-pawn, and the way to start is $\mathbf{1} \mathbf{R b 5}$ threatening $2 \mathrm{~Kb} 4.1 \ldots \mathrm{~K} \sim 2 \mathrm{~b} 8 \mathrm{Q}+$ is routine and if $1 \ldots \mathrm{Rg} 8$ then 2 Rb 6 with 3 Kb 5 to follow, leaving $\mathbf{1}$...Rf1 (for 2 Kb 4 Rg 1 $3 \mathrm{Rb6} \mathrm{Rb} 1+4 \mathrm{~K} \sim \mathrm{Rxb} 65 \mathrm{Kxb6}$ stalemate) and 1...Rf6 attacking the pawn from the side. But in each case 2 Rg5 forces 2 ...Rf8, and White's king can advance: $\mathbf{3 K b 5 / K b 4 ~ K x b 7 4 ~ K c 5 ~ ( n o w ~ W h i t e ~ m u s t ~ k e e p ~ t o ~ t h e ~}$ fifth rank) Kc7 5 Kd5 Kd7 6 Ke5 Ke7. This gives 4.6b, which differs from 4.6a in that Black's rook is not yet on g 8 and White's rook is on the fifth rank. This allows White to play 7 Rf5, after which the Black rook must quit the file ( $7 \ldots$...Rxf5 8 Kxf5 is a routine win) and Black's king will be cut off from the pawn: 7...Rg8 8 Rf7+ Ke8 9 Kf6 Kd8 $10 \mathrm{~g} 7 \mathrm{Ke} 811 \mathrm{Ke} 6 \mathrm{Kd} 812 \mathrm{Rf} 8+$, or 7 ...Ra8 8 Rf7+ Ke8 $9 \mathrm{Kf6} \mathrm{Ra} 6+10 \mathrm{Kg} 7$ etc.


I give 4.7 (Národní listy, 5 May 1929, version) in the form quoted by Mandler in FIDE Revue 1957.
The first point to note is that as long as the pawns are unmoved and Black's king can reach e8, White cannot exchange rooks. For example, suppose 4.7 without the rooks. Even with the move, White cannot win; he can take the opposition by 1 Kc 6 , but after $1 \ldots \mathrm{Kd} 82 \mathrm{Kd6} \mathrm{Ke} 8$ the normally winning move 3 e 7 gives stalemate.

Now consider diagram 4.7a. Suppose first that it is Black to play. $1 . . \mathrm{Rb} 72 \mathrm{Kd6}$ (threat 3 e7) Kd8 (2...Rb6+ 3 Ke 7 etc) $3 \mathrm{Kc} 6+$, or $1 . . . \mathrm{Rc} 72 \mathrm{Kd} 6 \mathrm{Kd} 83 \mathrm{Rf} 5 \mathrm{Rd} 7+4 \mathrm{Ke} 5 \mathrm{Rd} 15 \mathrm{Rf} 8+\mathrm{Ke} 76 \mathrm{Rf} 7+$ and 7 Rxg 7 , or 1...Re7 2 Kd 6 Kd 83 Rf 5 and the same. White to play, $1 \mathrm{Kf} 4 \mathrm{Ra} 4+2 \mathrm{Kf} 5 \mathrm{Ra} 73 \mathrm{Ke} 5$ and we have transferred the move to Black, or $1 \ldots$ Re7 2 Rf5 Rxe6 (if $2 \ldots \mathrm{Kc} 7$ then 3 Ke5 to stop 3...Kd6) 3 Rf7 Rxg6 $4 \mathrm{Kf} 5 \mathrm{R} \sim 5 \mathrm{Rxg} 7$.

So 4.7 a is a win for White with or without the move, which gives us a target. We must get White's king to e5, and cannot clear his path by opposing rooks because Black will exchange with a draw. 1 Rel can be shown to lead nowhere, and the main line goes $\mathbf{1}$ Rd6 Rc7 (see 4.7b) $\mathbf{2} \mathbf{~ K b 5 ~ R a 7 ~ ( 2 . . . K b 6 ~} 3$ Rd8 Re7 4 Rg 8 Rc 75 Rf 8 ) 3 Kc5 Ra5+ 4 Kb4 (see 4.7c) Ra7 (for 4...Re5 see below) 5 Kb5 Rc7 6 Kb6 (back to 4.7b but with Black to play) Re7 7 Kc5 Ra7 (now...Ra5+ is unavailable) 8 Rd4 Ra5+ 9 Kc6 Ra6+ 10 Kd5 (see 4.7d) Ra5+ (10...Kd8 11 Ke5+ Ke8 12 Rd7 and once the g-pawn has fallen the win will not be far away) $\mathbf{1 1}$ Ke4 Ra6 12 Ke5 Ra5+ 13 Kf4 Ra7 14 Rd5 Ra4+ 15 Kf5 Ra7 16 Ke5. We have duly reached 4.7a, and the win follows as above.


On the evidence of Harold van der Heijden's "Endgame study database IV", the study originally appeared in Národní listy with the g5 pawn on g4. Subsequently, either Réti or Mandler appears to have decided that Black could hold the draw in 4.7 c by playing $4 \ldots \mathrm{Re} 5$, thus refuting the lose-a-move manoeuvre and with it the intended solution. In Mandler's 1931 book, therefore, the study appeared in the revised form 4.7e in which this supposed refutation was exploited in the play, the intended solution being 1 Ka 4 Kc 82 Kb 4 Ra 73 Kb 5 etc and the natural try 1 Kb 4 being defeated by $1 \ldots \mathrm{Kc} 82 \mathrm{~Kb} 5 \mathrm{Ra} 73 \mathrm{Kc} 5 \mathrm{Ra} 5+4 \mathrm{~Kb} 4$ (else perpetual check on the a-file) Re5.

Had this been sound, it would have been a masterpiece, the apparent reciprocal zugzwangs after 1 Kb 4 ? Kc8 $2 \underline{\mathrm{~Kb} 5 \mathrm{Ra} 7}$ and 1 Ka 4 ! $\mathrm{Kc} 82 \mathrm{~Kb} 4 \underline{\mathrm{Ra} 7} 3 \underline{\mathrm{~Kb} 5}$ putting the final touch to an already fine composition. Sadly, the definitive results with $\mathrm{K}+\mathrm{R}+2 \mathrm{P} \mathrm{v} \mathrm{K}+\mathrm{R}$ now available refute 4 ...Re5, the positions after $5 \mathrm{Rd} 7 \mathrm{Rxe} 6 / \mathrm{Rxg} 5$ 6 Rxg7 being won for White (specimen best-play lines are $5 \ldots$...Re6 6 Rxg7 Kd8 7 Kc5 Ra6 8 Kd5 Ke8 9 Rg8+ Ke7 10 Ke5 Ra5+ $11 \mathrm{Kf} 4 \mathrm{Ra} 4+12 \mathrm{Kf5} \mathrm{Ra} 5+13 \mathrm{Kg} 4 \mathrm{Ra} 4+14 \mathrm{Kh} 5 \mathrm{Ra} 115 \mathrm{Rb} 8 \mathrm{Rh} 1+16 \mathrm{Kg} 4 \mathrm{Rg} 1+17 \mathrm{Kf} 5$ Rf1+ 18 Ke4 with 18...Rf8 19 Rb7+ Ke6 20 g 7 or $18 \ldots \mathrm{Re} 1+19 \mathrm{Kd} 3 \mathrm{Rd} 1+20 \mathrm{Kc} 2 \mathrm{Rg} 1 / \mathrm{Rd} 521 \mathrm{~g} 7$, and $5 \ldots \mathrm{Rxg} 5$ 6 Rxg7 Kd8 7 Kc4 Ke8 8 Kd4 Rg1 9 Rg8+ Ke7 10 Ke5 Re1+ 11 Kf5 Re5+ 12 Kf4 Re1 \{12...Rxe6 loses one move more quickly, $13 \mathrm{Kg} 5 \mathrm{Re} 114 \mathrm{Kh} 6 \mathrm{Rh} 1+15 \mathrm{Kg} 7 \mathrm{Rg} 116 \mathrm{Rh} 8 \mathrm{Ke} 617 \mathrm{Rh} 2\} 13 \mathrm{Kg} 5 \mathrm{Rh} 114 \mathrm{Ra} 8 \mathrm{Rg} 1+$ $15 \mathrm{Kh} 6 \mathrm{Rh} 1+16 \mathrm{Kg} 7 \mathrm{Rg} 117 \mathrm{Rh} 8$ Kxe6 $18 \mathrm{Rh} 2 \mathrm{Rg} 319 \mathrm{Re} 2+\mathrm{Kd} 620 \mathrm{Kf} 7 \mathrm{Rf} 3+21 \mathrm{Kg} 8 \mathrm{Rg} 322 \mathrm{~g} 7$ ). So 4.7e collapses, 1 Kb 4 becoming an unwanted dual rather than a tempting try, and we have to go back to 4.7. The fact that Mandler quoted 4.7 rather than 4.7 e in 1957 suggests that he had worked this out before the computers did.


In 4.8 (Tijdschrift v. d. NSB 1922, version in Ostrauer Morgenzeitung, 6 February 1923, dedicated to Dr A. Mandler), $\mathbf{1 g 3}$ threatens mate by $2 \mathrm{Rh} 4+$ gxh4 3 g 4 , and the only realistic defence is $\mathbf{1} \ldots$...Rg (if instead $1 \ldots \mathrm{~g} 4$ then 2 Rxg4 and mate by 3 Rh4). Now 2 Rb4 threatens mate by 3 Rb1 and 4 Rh1, and the only defence is 2...g4. White still continues with $\mathbf{3}$ Rb1, but Black can give himself a little air by 3...Rg5+ $\mathbf{4} \mathbf{K x f 6} \operatorname{Rg6} \mathbf{5} \mathbf{K f} 7$.

This has brought us to 4.8a, and we see that Black is not wholly out of the wood; a move by his rook along the rank will allow Rb5+ and mate next move, and $\ldots \mathrm{Kg} 5$ will allow mate at once. There remains 5 ...d2, but 6 a4 maintains the pressure (and its guard on b5 will be useful in the later play). Black still has no good rook or king move, but 6...d1Q 7 Rxd1 gets the pawn off the board, and now 7...Rf6+ has become available because 8 Kxf6 will be stalemate. Hence $\mathbf{8} \mathbf{K g} 7$, and if $8 \ldots \mathrm{Rg} 6+$ then 9 Kh 7 leaves Black helpless (he can avoid mate by 9 ...Kg5 10 Rd5+ Kf6, but 11 Rd6+ then picks up the rook). But Black can play $\mathbf{8}$...Rf5 claiming the fifth rank for himself, and after $9 \mathbf{R b 1} \mathrm{Kg} 5$ we have 4.8b.

If now $10 \mathrm{Rb5}$, which was White's objective in playing 9 Rb 1 , Black can reply $10 \ldots \mathrm{~h} 5$, and he will draw (11 Rxf5+ Kxf5 12 a 5 h 413 a 6 hxg 3 etc). The winning move is $\mathbf{1 0}$ Rb6, and if $10 \ldots \mathrm{~h} 5$ then 11 Rg 6 gives mate. So Black moves his rook, say 10...Re5, and now White can play 11 Rb5. The exchange $11 \ldots$ xxb5 12 axb5 loses, White being a tempo ahead of the previous line, and if he moves his rook back to f5 or defends it by $11 . . \mathrm{Kf} 5$ White will win by exchanging it off and taking the pawn on h6.


White's first thought in 4.9 (equal 1st/2nd Prize, Shakhmatny Listok, 1927/I) might be 1 Kxb7 with 2 c6 to follow, but it is soon seen to be inadequate. $1 \ldots \mathrm{Rh} 8$ threatens $2 \ldots$ Rxh 7 pinning the $\mathrm{f}-\mathrm{pawn}$, if 2 c 6 then $2 \ldots \mathrm{Rxh} 7$ 3 c 7 Rxf 7 with ...Rxc7 to follow, and if 2 Kc 6 to avoid the pin then $2 \ldots \mathrm{Ke} 5$ etc.

So White must go the other way, and the natural move is 1 Kd 6 guarding the c-pawn and avoiding the pin. But Black still plays $1 \ldots$ Rh8, and White has a problem (see 4.9a). Given that 2 Ke 7 will be met by $2 \ldots \mathrm{Rxh} 7$ again pinning the pawn, his only chance appears to be 2 Ke 6 going for the rook, but Black will play $2 \ldots \mathrm{Kxc} 5$ and shadow him across: $3 \mathrm{Kf6} \mathrm{Kd} 64 \mathrm{Kg} 7 \mathrm{Ke} 75 \mathrm{Kxh} 8 \mathrm{Kxf} 7$. White is now blocked in, and will be stalemated when his pawn moves have run out. Nor will sacrificing the c-pawn help (2 c6 bxc6 3 Ke 6 Kc 5 and exactly the same), and moves by the a-pawn can simply be echoed by Black.

The way forward is $\mathbf{1} \mathrm{Kd} 7$, and after $\mathbf{1 . . . R h 8}$ then $\mathbf{2} \mathrm{Kd6}$ giving 4.9a with Black to play. 2...Ke4 is clearly hopeless ( $3 \mathrm{Ke} 6 \mathrm{Kd} 44 \mathrm{Kf6} \mathrm{Kd} 55 \mathrm{Kg} 7 \mathrm{Ke} 66 \mathrm{f} 8 \mathrm{Q}$ ), but does not $2 . . . \mathrm{Kc} 43 \mathrm{Ke} 6 \mathrm{Kxc} 5$ lead to a draw as before?

No, White can meet 2...Kc4 by $\mathbf{3} \mathbf{c 6}$ (now sacrificing the c-pawn does help), and after 3...bxc6 not 4 Ke6, met by $4 \ldots$ Kc5 as before (see $\mathbf{4 . 9 b}$ ), but 4 Ke5. Black must play $\mathbf{4 . . . K c 5}$ to keep in touch, and 5 Ke6 gives 4.9b with Black to play. Moves by the a-pawn can be echoed by White, $5 \ldots \mathrm{a} 66 \mathrm{a} 3 \mathrm{a} 57 \mathrm{a} 4$, and after $7 \ldots \mathrm{~K} \sim$ we shall have $8 \mathrm{Kf6} \mathrm{Kd} 510 \mathrm{Kg} 7 \mathrm{Ke} 611 \mathrm{f} 8 \mathrm{Q}$.

It is one of Réti's most subtle studies.

