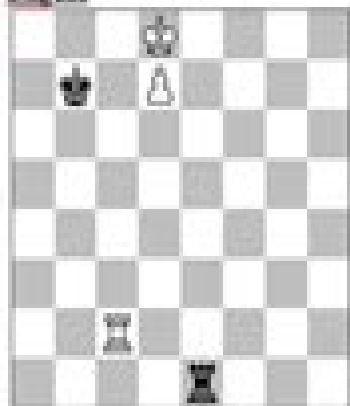


(v) Rook and pawn versus Rook

The Lucena position:

Diag 288



White to play wins.

1. Rb2+ Kd8

1... Kc8 2. Kc3 +-

2. Rb4!

This way of playing is called 'bridge building' - planning to interpose the rook on -d4.

2... Rg7

2... Ka5 3. Rd4 Kb6 4. Kc3 +-.

3. Kc2 Rc2+ 4. Kd6 Rd2+ 5. Kd6 Rc2+

6. Kd5 Rd2+ 7. Rd4 and wins.

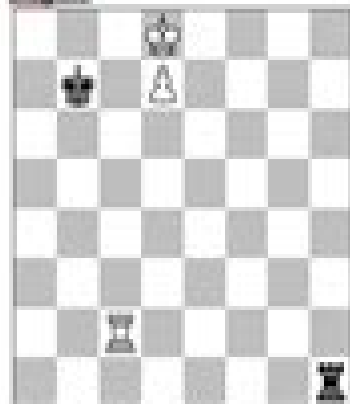
Note:

Similar positions with king on the 3rd rank and the pawn on the 7th rank in all other files except on the rook file wins in the same manner.

Note: before moving to the 7th rank rook pawn the readers should know that there is a possibility of draw if the defending rook is allowed to check along the ranks. For this the rook has to be on the longer side of

the pawn and placed at least 3 files apart.

Diag 289



Black to play draws

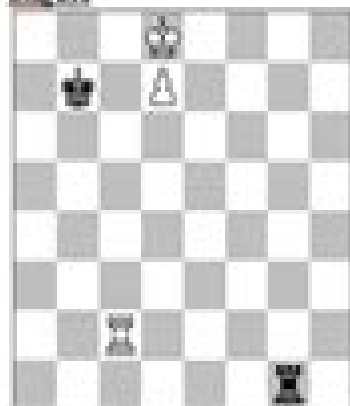
1... Rh8+ 2. Ke7 Rb7+ 3. Ke6 Rh6+

4. Ke5 Rh5+ 5. Ke4 Rh4+ 6. Kf3 Rh4! +-.

Note:

1. if it is white to play in the starting position it is an easy win for him after 1. Rb2+ and attain Lucena position as in the previous example.

Diag 290



Black to play

+-

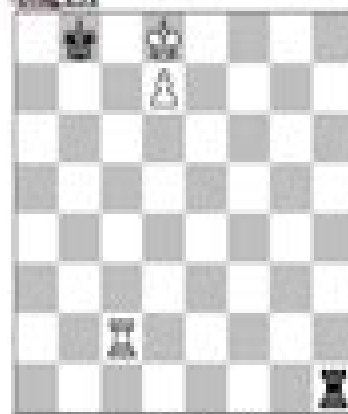
Note: if the rook is placed on the -g line it has not got enough space to force the white king to move away from the pawn.

1... Rg8+ 2. Ke7 Rg7+ 3. Ke8 Rg8+ 4. Kf7 Rh8 5. Rh2! Rb8 6. Ke7 Rg7 7. Rc2+ +-.

Note:

Again if the black king is positioned on -d8 (instead of -e7) white has a decisive check which wins the game

Diag 291



Black to play +-.

1... Rh8+

1... Kb7 2. Rb2+ Kc6 3. Kc3 +-.

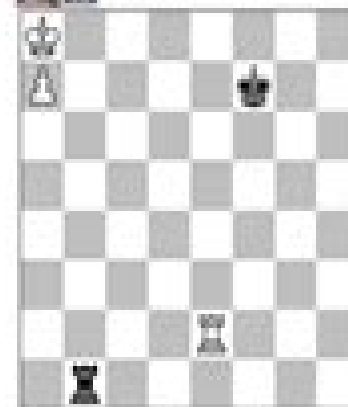
2. Ke7 Rb7+ 3. Kd6 Rh6+ 4. Kd5 Rh6+ 5. Kc6 Rh6+ 6. Kb5 Rh6+

6... Rd6 7. Rd+! the point. This check is not there if the king is initially placed on the 2nd rank, 7... Kd7 8. Rd2 +-.

7. Kd6 Rh6+ 8. Kc6 Rh6 9. Rd6 Rb8 10. Rd4 Kd8 11. Kc7 +-.

Rook pawn on the seventh rank

Diag 292



White to play wins

1. Rh2 Ke7 2. Rh4 Kd6

2... Kd7 3. Rh4 Ra1 4. Kb7 Rb1+ 5. Ka6 Ra2+ 6. Kb6 Rb1+ 7. Kc5 +-.

3. Rh4 Ra1 4. Kb7 Rb1+ 5. Kd1!

5. Ka6?! Ra2+ 6. Kb6 Rb1+ and white cannot make any progress.

5... Rc1+ 6. Kd8 Rh1 7. Rh4+ Kc5

8. Rc4!

8. Rh2 also wins. 8... Rh8+ 9. Kc7 Rh7+ 10. Kb8 Rh8+ 11. Kb7 Rh7+ 12. Ka6 Rh6+

11. Ka5 Rh5 14. Rh4 Rh8 15. Rh4 Rh1 16. Rc8+ +-.

8... Kc6

8... Kc5 9. Ka6 Rh8+ 10. Kc7 Rh7+ 11. Kb6 Rh8+ 12. Kc5.

9. Rc8 Rh8+ 10. Kc7 Rh7+ 11. Kb8 and wins.

Note: if the black king is nearer to the pawn then he can obtain draw as the

Fundamental Chess Endings

M Lipman



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web the steady blade element momentum bem developed by glauert h 1935 in 1935 is used for calculating the loads acting on the wind turbine rotor for any set of wind speed rotor speed

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web wind turbine power nominal power yield annual yield rotation magnitude distance repowering wind turbine power calculator calculates the power of a wind turbine from size wind speed and air density the radius is the length of a rotor blade the wind speed refers to one point in time not to an average speed

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