8.14)

a) If Pw and Pb are the probability that the champion will win if white and black respectively, P(g,i) is the probability of winning with g games and I games to win. Therefore P(g,i) = likelihood of winning *P(g-1,i-1) + likelihood of drawing *P(g-1,i-1/2) + likelihood of losing *P(g-1,i)

b) By looking at the probability of Pw(0,24), since there are 24 games, we can determine the probability that the champion wins and retains their title

c) Quadratic running time since O(g*i) where g is the total games and I is the required amount to win