1. Perloff, third edition: question 3 page 179

2. Perloff, third edition: question 5 page 179

3. Perloff, third edition: question 14 page 180

5. Write the equation for the marginal product of capital for each of the following production functions:
   
a. \( Q = 3K + 2L \)
   
b. \( Q = 4K^{0.5}L \)
   
c. \( Q = 5K^{0.5}L - L \)

6. Draw a graph showing a set of isoquants that depict capital and labor to be perfect complements (not substitutable at all) in a production function that exhibits constant return to scale. Be sure to label the input and output levels on the isoquants.