

1) Complete the following table.

Output	Fixed Cost	Average Fixed Cost	Total Cost	Variable Cost	Average Cost	Ave. Variable Cost	Marginal Cost
0	12	NA		NA	NA	NA	NA
1			23				
2			33				
3			44				
4			56				
5			69				
6			84				
7			101				
8			121				

- a) Is this a short run or long run information on cost? Why?
- b) If the price of the good produced is currently 13, what level of output is the profit maximizing level?
- c) Draw the fixed cost, the variable cost, and total cost based on the information in this table.

- 2) Using the information in the table in problem one, draw an average variable cost curve, an average fixed cost curve, an average cost curve and a marginal cost curve on a single graph. Explain the reasons for the shape of each, and the implications of where the curves cross each other.

- 3) Define the seven short run cost concepts.

Which of these are applicable in the long run? Why?

- 4) Assume the rental rate of capital is 4, and the wage rate is 5.
 - a. Draw an isocost curve for a cost level of 200.
 - b. Repeat your graph from (a) and add in an isoquant tangent to the isocost for \$200. What should the marginal rate of technical substitution be at an economically efficient bundle?

- 5) My variable cost of producing rakes is \$5,000 per day, and the fixed costs of running my rake factory are \$120,000 per 30 day month (we work every day). Below what level of revenue would I be better off shutting down and not producing any rakes?
- 6) Describe the expansion path.
- a. Define the expansion path.
 - b. Illustrate on a graph how the expansion path is derived.
 - c. Are there points on the expansion path that are technically efficient but are not economically efficient? Why or why not?
 - d. Can we identify a profit maximization point based on the information contained in the expansion path? Why or why not?