Chapter 8: Production and Cost in the Short Run Quiz

When answering the questions below, please show all details of your calculations.

- 1. Suppose that a firm is currently employing 20 workers, the only variable input, at a wage rate of \$60. The average product of labor is 30, the last worker added 12 units to total output, and total fixed cost is \$3,600.
 - a. What is marginal cost? $\frac{\omega}{mP} = \frac{60}{12} = 85$

6.5

b. What is average variable cost?

0.5

c. How much output is being produced?

6.5

d. What is average total cost?

e. Is average variable cost increasing, constant, or decreasing? Why?

o.5 SMC > AUC

Auc is increasing decause last unit of production is greater than curent overage so it raises it. like gpA

f. Is average total cost increasing, constant, or decreasing? Why?

0.5 ATC > MG

ATCIS decreasing because in last unit bringless value than the current average, so it will bing it down

chok