1. An economist estimated that the cost function of a single-product firm is:

C(*Q*) = 60 + 30*Q* + 25*Q*2 + 5*Q*3.

Based on this information, determine the following:

a. The fixed cost of producing 10 units of output.

$

b. The variable cost of producing 10 units of output.

$

c. The total cost of producing 10 units of output.

$

d. The average fixed cost of producing 10 units of output.

$

e. The average variable cost of producing 10 units of output.

$

f. The average total cost of producing 10 units of output.

$

g. The marginal cost when *Q* = 10.