

Answer on Question #44619 – Economics - Other

$$TC = 1000 + 10Q^2 + 2Q^3$$

Calculate the
TFC
TVC
MC

Solution

$$TC = 1000 + 10Q^2 + 2Q^3$$

Total cost

$$TC = TVC + TFC,$$

where TVC - total variable cost, TFC - total fixed cost (which is constant for any quantity produced).

$$TFC = 1000,$$

$$TVC = 10Q^2 + 2Q^3$$

Marginal cost

$$MC = TC' = 20Q + 6Q^2$$