Question: What is the relationship between average cost and average product? Also, what is the relationship between marginal cost and marginal product? Show graphically.

Answer: We know,

Ac = Average cost

AP = Average product

Q = Total product/Quantity/output

TVC = Total variable cost

In the long run,

AVC = Average variable

$$MC = \frac{d(TVC)}{dQ}$$

$$= \frac{P_c}{MP} \left[Using (ii) \right]$$

Therefore we can conclude that cost and product are inversely proportional to each other.



