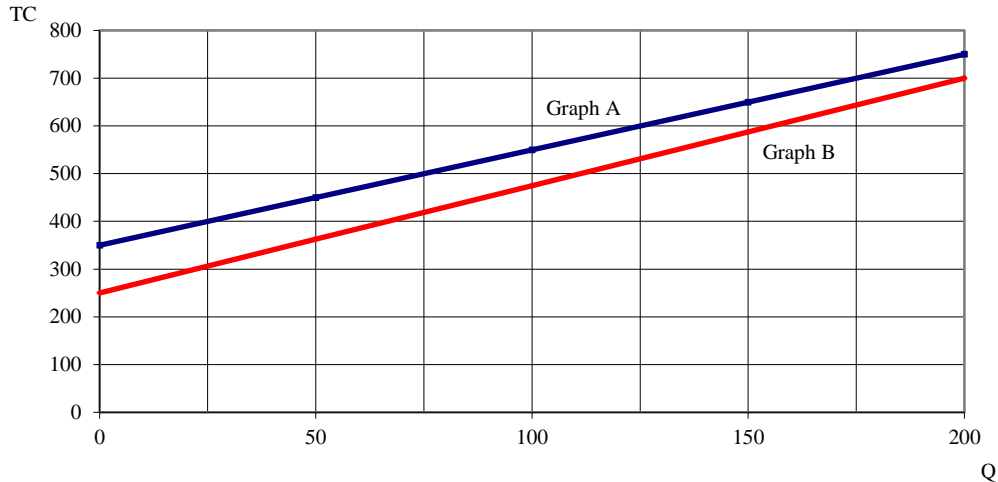


Exercise: Total Cost Graph

Two total cost graphs, Graph A and Graph B, are shown below. In each case, the capacity for the period is 200 units.



- (a) Graph B has a steeper slope than Graph A. This indicates a greater unit variable costs.

We know that the slope of the total cost line gives the unit variable costs.

$$\text{Graph A: } a = \frac{y_2 - y_1}{x_2 - x_1} = \frac{750 - 350}{200 - 0} = \frac{400}{200} = 2$$

The unit variable costs for Graph A are Dh 2.

$$\text{Graph B: } a = \frac{y_2 - y_1}{x_2 - x_1} = \frac{700 - 250}{200 - 0} = \frac{450}{200} = 2.25$$

The unit variable costs for Graph B are Dh 2.25.

- (b) The fixed costs for Graph A are Dh 350.
The fixed costs for Graph B are Dh 250.
- (c) The total cost equation for Graph A is $TC = 2Q + 350$.
The total cost equation for Graph B is $TC = 2.25Q + 250$.