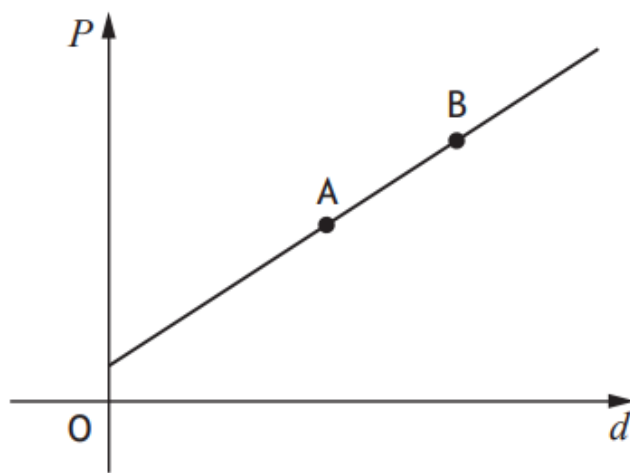




The cost of a journey with Tom's Taxis depends on the distance travelled.

The graph below shows the cost, P pounds, of a journey with Tom's Taxis against the distance travelled, d miles.



Point A represents a journey of 8 miles which costs £14.

Point B represents a journey of 12 miles which costs £20.

(a) Find the equation of the line in terms of P and d .

Give the equation in its simplest form.

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(b) Calculate the cost of a journey of 5 miles.

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Answers:

(a) $P = \frac{3}{2}d + 2$ or $2P = 3d + 4$ or equivalent

(b) £9.50