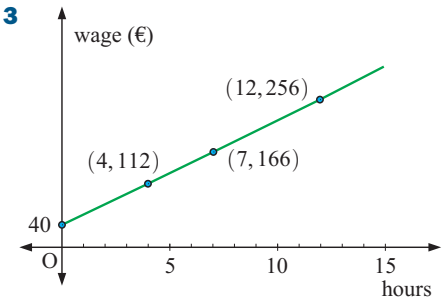
3



The graph alongside indicates the wages paid to security guards.

a What does the intercept on the vertical axis mean?

b Find the gradient of the line. What does this gradient mean?

c Determine the wage for working:

i 6 hours **ii** 15 hours.

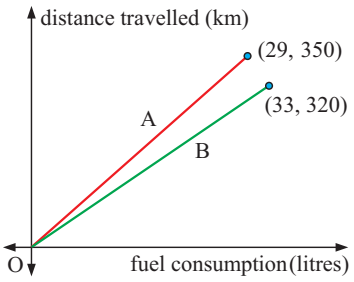
d If no payment is made for not working, but the same payment shown in the graph is made for 8 hours' work, what is the new rate of pay?

4 The graphs alongside indicate the fuel consumption and distance travelled at speeds of 60 km/h (graph A) and 90 km/h (graph B).

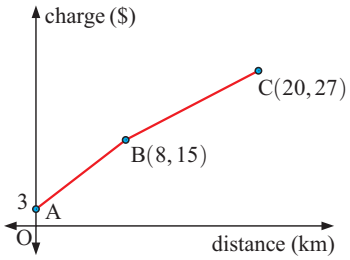
a Find the gradient of each line.

b What do these gradients mean?

c If fuel costs \$1.40 per litre, how much more would it cost to travel 1000 km at 90 km/h compared with 60 km/h?



5



The graph alongside indicates the courier charge for different distances travelled.

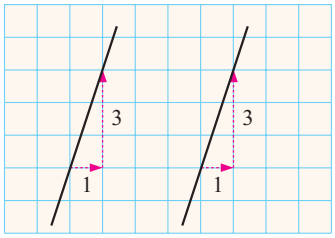
a What does the value at A indicate?

b Find the gradients of the line segements AB and BC. What do these gradients indicate?

c If a straight line segment was drawn from A to C, find its gradient. What would this gradient mean?

E GRADIENT OF PARALLEL AND PERPENDICULAR LINES [7.5]

PARALLEL LINES



Notice that the given lines are parallel and both of them have a gradient of 3.

In fact:

- if two lines are **parallel**, then they have **equal gradient**, and
- if two lines have **equal gradient**, then they are **parallel**.

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