

4th October

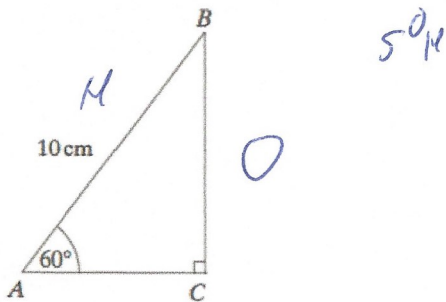


Corbettmaths

Jack drives at 60 mph for  
1 hour 45 minutes.

How far does he travel?

$$\begin{aligned} d &= s \times t \\ &= 60 \times 1.75 \\ &= 105 \text{ miles} \end{aligned}$$



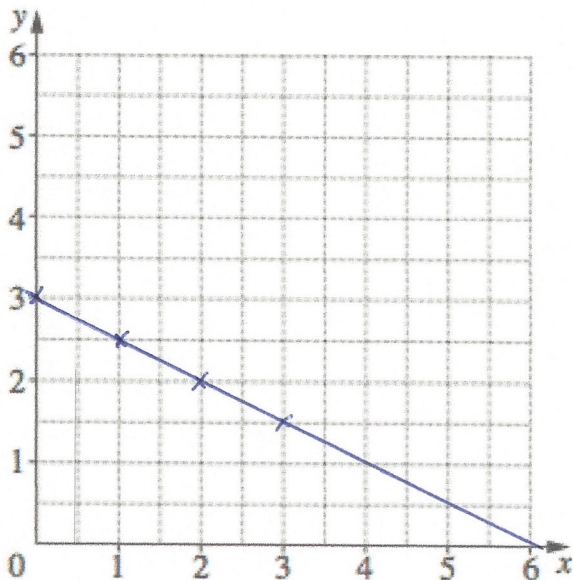
Calculate the length of BC

$$\begin{aligned} &\sin(60) \times 10 \\ &= 8.66025\dots \text{ cm} \end{aligned}$$

Solve  $x^2 - 121 = 0$

$$\begin{aligned} (x-11)(x+11) &= 0 \\ x &= 11 \text{ or } x = -11 \end{aligned}$$

$$\begin{aligned} x^2 &= 121 \\ x &= \pm \sqrt{121} \\ x &= \pm 11 \end{aligned}$$



Draw  $x + 2y = 6$

$x$	0	1	2	3
$y$	3	2.5	2	1.5

Make  $y$  the subject of  $x + 2y = 6$

$$\begin{aligned} -x & \quad -x \\ 2y &= 6 - x \\ y &= 3 - \frac{1}{2}x \end{aligned}$$