

4th December



Corbettmaths

Solve:

$$x + 3y = 11$$

$$4x - 7y = 6$$

$$\begin{array}{r} 4x + 12y = 44 \\ 4x - 7y = 6 \quad (\text{sub}) \\ \hline 19y = 38 \\ y = 2 \end{array}$$

$$4x - 14 = 6$$

$$4x = 20$$

$$x = 5$$

Check

$$5 + 6 = 11 \checkmark$$

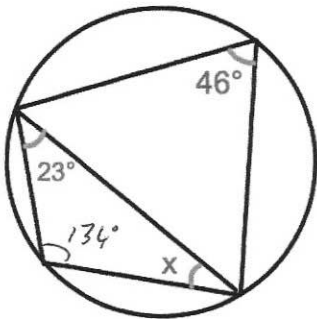
$$x = 5, \\ y = 2$$

Convert 4.5m^2 into mm^2

Give your answer in standard form.

$$4.5 \text{ m}^2 = 45000 \text{ cm}^2 \\ 45000 \text{ cm}^2 = 4500000 \text{ mm}^2$$

$$4.5 \times 10^6$$

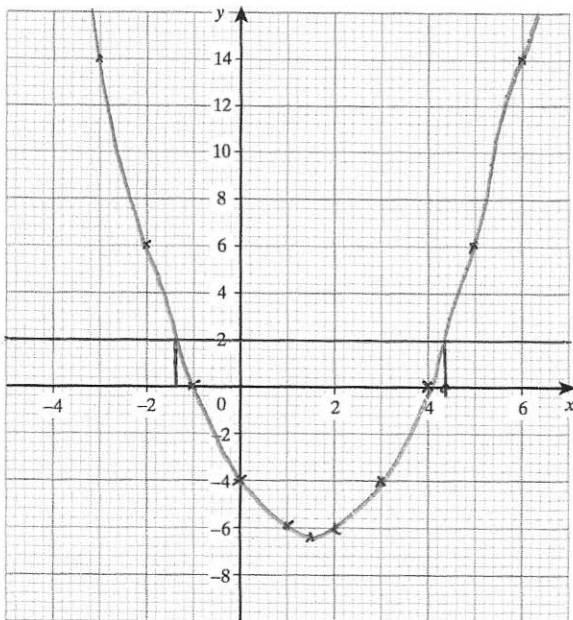


$$\begin{array}{r} 71 \\ 180 \\ - 46 \\ \hline 134 \\ \\ 134 \\ + 23 \\ \hline 157 \end{array}$$

Find x

$$\begin{array}{r} 71 \\ 180 \\ - 157 \\ \hline 23 \end{array}$$

$$23^\circ$$



Draw the graph $y = x^2 - 3x - 4$

$$\begin{array}{r|cccccc} x & -3 & -2 & -1 & 0 & 1 & 2 & 3 \\ \hline y & 14 & 6 & 0 & -4 & -6 & -6 & -4 \end{array}$$

$$\begin{array}{r|ccc} x & 4 & 5 & 6 \\ \hline y & 0 & 6 & 14 \end{array}$$

Write down the solutions of $x^2 - 3x - 4 = 2$

$$x = -1.4 \text{ or } x = 4.4$$