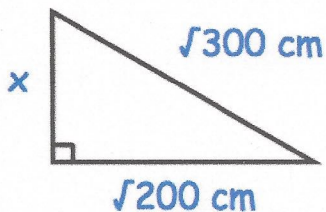


27th May



Corbettmaths



Find x

$$x^2 + \sqrt{200}^2 = \sqrt{300}^2$$

$$x^2 + 200 = 300$$

$$x^2 = 100$$

$$x = 10$$

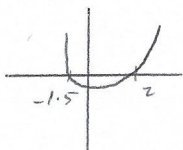
Expand

$$(3 + \sqrt{2})(2 - \sqrt{2})$$

$$6 - 3\sqrt{2} + 2\sqrt{2} - 2$$

$$4 - \sqrt{2}$$

Solve  $2x^2 - x - 6 > 0$   $(x-2)(2x+3)$



$$x < -1.5 \text{ or } x > 2$$

Circle A has equation  $x^2 + y^2 = 9$  is translated by the vector  $\begin{pmatrix} 0 \\ 2 \end{pmatrix}$   $r=3$

$\begin{pmatrix} 0 \\ 2 \end{pmatrix}$  2 up to give Circle B

Sketch Circle B

Label the centre of B and the points of intersection with the  $y$ -axis

