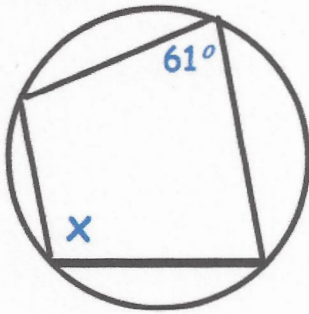


26th May



Corbettmaths



Calculate angle x

$$119^\circ$$

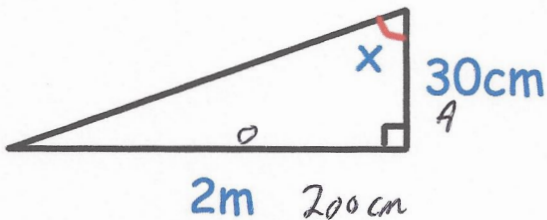
Solve using the quadratic formula, to 1 decimal place.

$$x^2 - x - 10 = 0$$

$$a = 1 \quad b = -1 \quad c = -10$$

$$x = \frac{1 \pm \sqrt{41}}{2}$$

$$x = 3.7 \quad \text{or} \quad x = -2.7$$



Find x

$$\tan x = \frac{200}{30}$$

$$x = \tan^{-1} \frac{200}{30}$$

$$x = 81.5^\circ$$

Find the equation of the straight line through the points (1, 12) and (3, 8).

$$m = \frac{8 - 12}{3 - 1} = \frac{-4}{2} = -2$$

$$y = -2x + 14$$

The point (c, 10) lies on the same line.

Find c

$$(2, 10)$$

$$c = 2$$

Work out

$$16^{1.5} + 8^0 = 16^{\frac{3}{2}} + 8^0$$

$$64 + 1 = 65$$