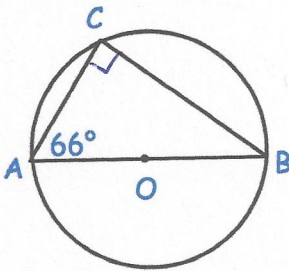


23rd September



Corbettmaths



AOB is the diameter of the circle.

Find the size of angle ACB.

$$90^\circ$$

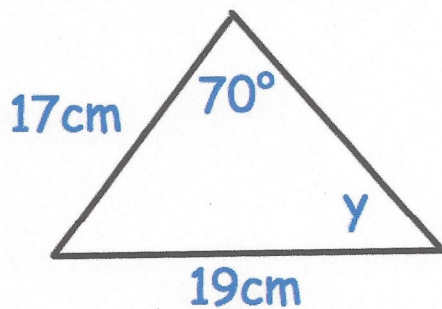
Find the size of angle ABC.

$$24^\circ$$

Factorise

$$25y^2 - 9w^2$$

$$(5y - 3w)(5y + 3w)$$



Find y.

$$\frac{\sin y}{17} = \frac{\sin 70}{19}$$

$$\sin y = 0.84\dots$$

$$y = 57.22^\circ$$

Solve, giving your answers to one decimal place.

$$4x^2 - 9 = 2x^2 + 4x$$

$$2x^2 - 9 = 4x$$

$$2x^2 - 4x - 9 = 0$$

$$a = 2 \quad b = -4 \quad c = -9$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = 3.3452$$

$$\text{or } x = -1.3452$$

Expand $\sqrt{6}(2 - \sqrt{3})$

$$2\sqrt{6} - \sqrt{18}$$

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