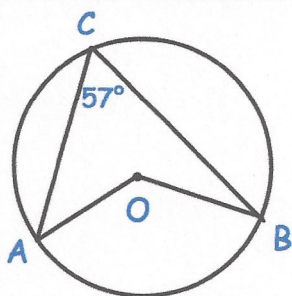


25th October



Corbettmaths



O is the centre of the circle.

Find the size of angle AOB.

$$114^\circ$$

Find the size of each interior angle of a regular 40-sided polygon.

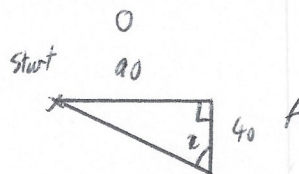
$$(40 - 2) \times 180^\circ = 6840$$

$$6840 \div 40 = 171^\circ$$

A helicopter flies 90 miles East and 40 miles South and lands. The helicopter flies back on a direct course. What is its bearing?

$$\tan x = \frac{90}{40}$$

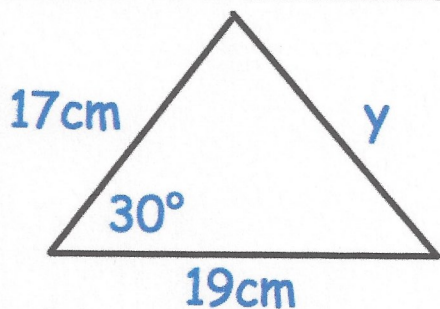
$$x = 66.04^\circ$$



$$360 - 66.04 = \underline{293.96^\circ}$$

Find the equation of the line perpendicular to $y = \frac{1}{2}x - 3$ that passes through (0, 4)

$$y = -2x + 4$$



Find y.

$$y^2 = 17^2 + 19^2 - 2 \times 17 \times 19 \times \cos 30$$

$$y^2 = 90.54 \dots$$

$$y = 9.516 \text{ cm}$$