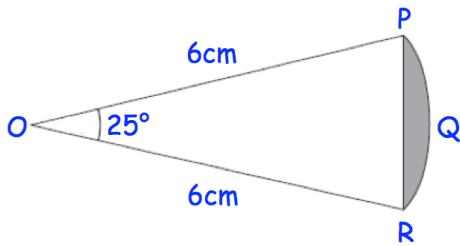
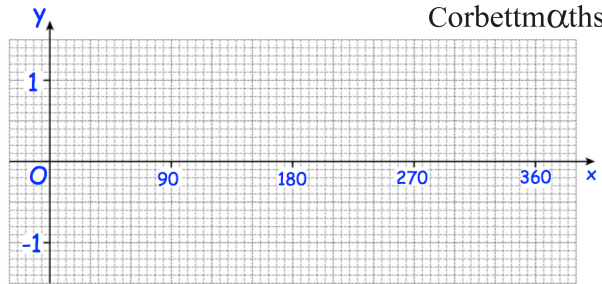


14th May

Corbettmaths

Sketch the graph of $y = \sin x$ for $0 \leq x \leq 360$.



PQR is an arc of a circle centre O with radius 6cm.
PR is a chord of the circle.

Calculate the area of the shaded region.

Find the set of values of x for which $x^2 - 36 > 0$ **and** $x^2 + 8x - 105 > 0$

Rationalise the denominator of

$$\frac{3 + \sqrt{2}}{\sqrt{3}}$$

Solve the simultaneous equations

$$y = x^2 + x + 2$$

and

$$x + 3y = 38$$