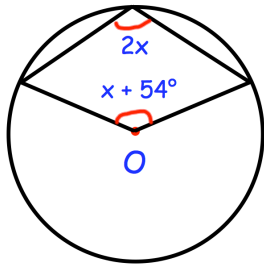
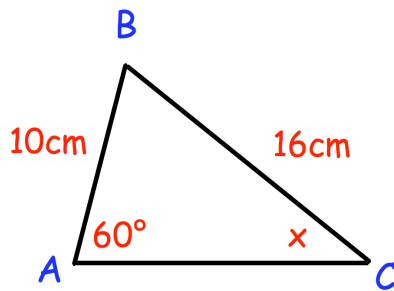


25th February

Corbettmaths

Work out the value of x

The coefficient of x^2 in the expansion of $(x + 3)(x + c)(5x - 2)$ is -17

Find the value of c Find the exact value of $\sin(x)$

The curve C has equation

$$y = \frac{1}{3}x^3 - 2x^2 - 10x + 4$$

The point P has coordinates $(-3, 7)$

Another point Q also lies on C .

The tangent to C at Q is parallel to the tangent to C at P .

Find the x -coordinate of Q