

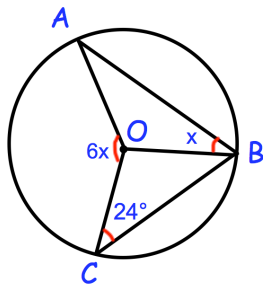
15th December

Corbettmaths

Express $10x^2 + 20x + 19$ in the form $a(x + b)^2 + c$

Hence find the maximum value of

$$\frac{1}{10x^2 + 20x + 19}$$

Find x The equation of a curve is
 $y = (x - 2)(x + 6)$

P is a point on the curve.

The tangent to the curve at P has
gradient -5

Work out the coordinates of P