

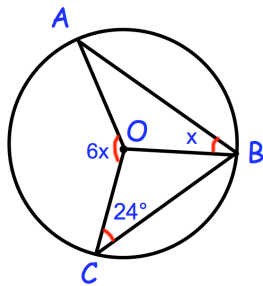
15th December

Corbettmaths

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

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