Name: _____ 5-a-day Further Maths

22nd January

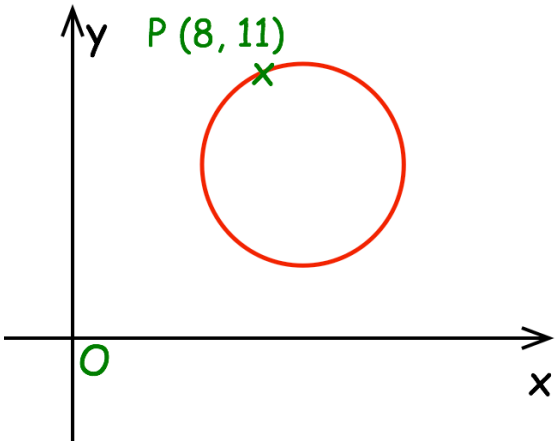
Corbettmaths

$\mathbf{A} = \begin{pmatrix} -4 & 1 \\ 2 & 3 \end{pmatrix}$

$\mathbf{B} = \begin{pmatrix} 9 & -1 \\ -1 & 0 \end{pmatrix}$

Work out the matrix **BA**

The diagram shows the circle with equation $(x-9)^2 + (y-8)^2 = 10$ with a tangent at the point (8, 11)



Find the equation of the tangent to the circle at P

y = f(x) has exactly two stationary points.

The stationary points are

a minimum at D $(3, -2)$

a maximum at E (b, c) where $0 < b < 3$ and $-2 < c < 0$

Sketch the curve and label D and E.