

9th December

Corbettmaths

<p>A circle has equation</p> $(x + 4)^2 + (y - 7)^2 = 9$ <p>Write down the coordinates of the centre of the circle.</p>	<p>Write down the equation of a tangent to the circle</p>
<p>Rationalise and simplify $\frac{18 - \sqrt{6}}{3 - \sqrt{6}}$</p>	
<p>Factorise $3x^2 - 17x + 10$</p>	
<p>Hence solve</p> $3(y - 1)^2 - 17(y - 1) + 10 = 0$	
<p>A curve has equation $y = x^2 + 9x - 3$</p> <p>At point Q on the curve, the tangent is parallel to the line $y = 2 - 5x$</p> <p>Work out the coordinates of Q.</p>	