

<p>Circles and Lines</p> <p>A circle has centre $(-1, -3)$ and radius $\sqrt{17}$</p> <p>ATM</p>	<p>Circles and Lines</p> <p>The equation of the tangent to the circle at $(3, -4)$ is $y = 4x - 16$</p> <p>The point $(3, -2)$ lies on the circle</p> <p>ATM</p>	<p>Circles and Lines</p> <p>The equation of the normal to the circle at $(-5, -2)$ is $4y + x + 13 = 0$</p> <p>The equation of the normal to the circle at $(0, 1)$ is $y = 4x + 1$</p> <p>ATM</p>
<p>Circles and Lines</p> <p>The equation of a circle is $x^2 + y^2 + 2x + 6y = 7$</p> <p>ATM</p>	<p>Circles and Lines</p> <p>The lines $y = x - 2$ and $y + 2x + 5 = 0$ cut at the centre of the circle</p> <p>The point $(-2, -7)$ lies on the circle</p> <p>ATM</p>	<p>Circles and Lines</p>  <p>ATM</p>
<p>Circles and Lines</p> <p>The equation of a circle is $(x + 1)^2 + (y + 3)^2 = 17$</p> <p>ATM</p>	<p>Circles and Lines</p> <p>The line joining the points $(-2, 1)$ and $(0, -7)$ is a diameter of the circle</p> <p>ATM</p>	<p>Circles and Lines</p> <p>The points $(0, 1)$, $(3, -2)$ and $(-5, -4)$ all lie on the circle</p> <p>ATM</p>