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<b>10</b>	<b>1c</b>	Write down the equation of the circle with centre $(-1, 2)$ and radius 5.	<b>1</b>
<p>Using the formula</p> $(x - h)^2 + (y - k)^2 = r^2,$ <p>where centre <math>(h, k)</math> and radius <math>r</math>:</p> <p>Now, <math>C(-1, 2)</math> and <math>r = 5</math>:</p> $(x - (-1))^2 + (y - 2)^2 = 5^2$ $(x + 1)^2 + (y - 2)^2 = 25$			<p>State Mean:</p> <p><b>0.70/1</b></p>

\* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by the Board of Studies

<b>Board of Studies: Notes from the Marking Centre</b>
<p>A common error was writing the equation of a circle with the centre at the origin</p> $x^2 + y^2 = 25.$ <p>A significant number of candidates wasted time in expanding the equation.</p>
<p><b>Source:</b> <a href="http://www.boardofstudies.nsw.edu.au/hsc_exams/">http://www.boardofstudies.nsw.edu.au/hsc_exams/</a></p>