Question	Answer	Marks	AO	Guidance	
3	$\left(\frac{2+3}{2}, \frac{-5+1}{2}\right)$	**M1***	**2.1**	Attempt at the midpoint (3 out of 4 values used correctly **or** one correct coordinate)	If correct $\left(\frac{5}{2}, -2\right)$
	$d^2 = (2-3)^2 + (-5-1)^2$	**M1***	**1.1**	Attempt to calculate diameter d or radius r (or the square of either of these two) e.g. $r^2 = \left(2-\frac{5}{2}\right)^2 + \left(-5-(-2)\right)^2$ **M0** if implying that $r^2 = (2-3)^2 + (-5-1)^2$. If the value is not labelled (as either r or d) then consider how this value is used in their circle equation	3 out of 4 values used correctly – if correct $d^2 = 37$ or $r^2 = \frac{37}{4}$
	$\left(x-\frac{5}{2}\right)^2 + (y+2)^2 = \frac{37}{4}$ $x^2 - 5x + \frac{25}{4} + y^2 + 4y + 4 = \frac{37}{4}$	**M1dep***	**1.1**	Correct form for the equation of a circle with their values for the centre and radius	Dependent on both previous **M** marks
	$x^2 + y^2 - 5x + 4y + 1 = 0$	**A1** **[4]**	**2.2a**	Must have = 0 Order of terms on the lhs irrelevant	a, b and c need not be explicitly stated