

Question Number	Scheme	Marks
<b>3 (a)</b>	$7 + 5 + p = 0$ or $-9 + 6 + q = 0$ $p = -12$ $q = 3$	M1 A1 A1 (3)
<b>(b)</b>	$\mathbf{R} = 12\mathbf{i} - 3\mathbf{j}$ $ \mathbf{R}  = \sqrt{(12^2 + (-3)^2)} = \sqrt{153}$ or $3\sqrt{17}$ or 12.4 or better (N)	M1 A1 (2)
<b>(c)</b>	$\tan \theta = \frac{3}{12}$ $\theta = 14.03^\circ \dots$ Angle with $\mathbf{j}$ is $104^\circ$ , to the nearest degree cao	M1 A1 A1 (3) <b>8</b>

