

Q	Marking Instructions	AO	Marks	Typical Solution
5	Forms an equation for gradient of CD = $\frac{1}{4}$ or $-\frac{1}{4}$ of the form difference in y over difference in x (or vice versa = 4 or -4)	AO3.1a	M1	$\frac{d-2}{6-c} = \frac{1}{4}$
	Obtains a correct equation for c & d	AO1.1b	A1	$4d - 8 = 6 - c$ $c + 4d = 14$
	Forms an equation for the mid-point of CD lying on $y + 4x = 11$	AO3.1a	M1	$\frac{2+d}{2} + 4\left(\frac{c+6}{2}\right) = 11$
	Obtains correct equation for c & d (any correct form)	AO1.1b	A1	$4c + d = -4$
	Solves for c and d CAO	AO1.1b	A1	$c = -2 \quad d = 4$
	Total		5	