

Question		Answer	Marks	AO	Guidance	
5	(a)	Stationary point at $(-3, 2) \Rightarrow b = 3, c = 2$	B2 [2]	1.1 1.1	B1 for one correct	
5	(b)	Translated curve is $y = a(x + (b - 4))^2 + c$ $-18 = a(3 + (b - 4))^2 + c \Rightarrow a = \dots$ $a = -5$	M1* M1dep* A1 [3]	2.1 1.1 1.1	Translates y by either $\begin{pmatrix} \pm 4 \\ 0 \end{pmatrix}$ only Substitutes $(3, -18)$ into translated curve and finds a value for a	
					Possible to translate $(3, -18)$ by $\begin{pmatrix} \pm 4 \\ 0 \end{pmatrix}$ and use original curve to find a	