Q	Marking instructions	AO	Marks	Typical solution
6(a)	Obtains $a = 2$ Obtains $b = 5$	1.1b 1.1b	B1 B1	$y = 2(x^2 - 10x + 21)$
	Obtains $c = -8$	1.10		$y = 2(x^2 - 10x + 25 - 4)$
		1.1b	B1	$y = 2((x-5)^2 - 4)$
				$y = 2(x-5)^2 - 8$
	Subtotal		3	
O Marking instructions AO Marks Typical salvities				
Q	Marking instructions	AO	Marks	Typical solution
6(b)	Obtains correct coordinates of their minimum point. FT their b and c Condone missing brackets.	1.1b	B1F	(5, -8)
	Subtotal		1	
O Manking instructions AO Manks Trucket and the second				
Q	Marking instructions	AO	Marks	Typical solution
6(c)	Uses a stretch scale factor of $\frac{1}{2}$ FT \pm their $\frac{-4}{c}$,do not FT $c=\pm 4$ PI by correct answer	3.1a	M1	scale factor = $\frac{-4}{-8} = \frac{1}{2}$ $y = 2(x - 5)^2 - 8$
	Dadwaa thair as wat a wat			$y = \frac{1}{2} \left[2(x-5)^2 - 8 \right]$
	Deduces their correct equation using their vertical stretch factor. ACF FT their c , do not FT $c=\pm 4$ ISW	2.2a	A1F	$y = \frac{1}{2} [2(x-3)^{2} - 8]$ $y = (x-5)^{2} - 4$ $y = x^{2} - 10x + 21$
	Subtotal		2	
	Question 6 Total		6	
	Question 6 Total		ט	