Question		Answer	Marks	AO	Guidance	
5	(a)	scale factor 4	B1	1.1	Allow s.f. or 'factor' but not just 4 or 4 units or 'scale factor 4 units'	Comments MUST refer to a stretch otherwise B0B0
		parallel to the y-axis	B1 [2]	2.5	oe e.g. allow in the y-direction, vertically, vertically upwards, vertical stretch, in the vertical direction, positive y-direction, parallel to the positive y-axis but not just upwards or in/on/about/across/through/along/towards the y-axis	If B0B0 then SCB1 for re-writing as $(y =)4(2^{3x})$
5	(b)	$2^{3x+2} - 2^{3x} = 36$	B1	1.1	For the correct equation in <i>x</i>	Or
		$2^{3x} = 12 \Longrightarrow \log(2^{3x}) = \log 12$	M1	1.1	Simplify to $2^{3x} = k$ where $k > 0$ and take logs of both sides (any base)	$4y_A - y_A = 36 \Longrightarrow y_A = 12$
		$x = \frac{1}{3}\log_2 12$	A1	1.1	oe, e.g. $x = \log_2(12^{1/3})$	
			[3]			