

Question		Answer	Marks	AO	Guidance	
2	(a)	$6a^3$	B1 B1 [2]	1.1 1.1	Obtain 6 Obtain a^3	B1 only for $\pm 6a^3$
	(b)	$(64b^3)^{\frac{1}{3}} = 4b$ or $(4b^4)^{-\frac{1}{2}} = \frac{1}{2b^2}$ $2b^{-1}$ or $\frac{2}{b}$	B1 B1 [2]	1.1a 1.1	Correct simplification of either term Correct final answer	Allow $(2b^2)^{-1}$ for the second term
	(c)	$9^{3c} = 3^{6c}$ $27^{2c} = 3^{6c}$ $7 \times 3^{6c} - 4 \times 3^{6c} = 3 \times 3^{6c}$ $= 3^{6c+1}$	B1 M1 A1 A1 [4]	1.1 1.1a 3.1a 1.1	Either 9^c or 27^{2c} correct as a power of 3 (or 729) Attempt to write the other one of 9^c and 27^{2c} with the same base Combine to obtain correct single term Obtain correct final answer	Ignore coefficient Index must be simplified Ignore coefficient Allow unsimplified index B2 for $27^{2c} = 9^{3c}$ Allow equiv eg 3×729^c or 3×27^{2c} or 3×9^{3c} Must be single power of 3 OR B1 $9^{2c}(7 \times 9^c - 4 \times 3^{2c})$ M1 $9^{2c}(7 \times 3^{2c} - 4 \times 3^{2c})$ $9^{2c} \times 3 \times 3^{2c}$ A1 3×27^{2c} A1 3^{6c+1}