

Question	Working	Answer	Mark	Notes
6	$6a^4c$ or $46656a^{24}c^6$ or $36^3a^{24}c^6$ or $6^6a^{24}c^6$		2	M1 for correctly applying the power of 3 or the power of a 0.5 to all 3 terms or for an expression of 3 terms in the form $ma^p c^q$ with 2 of m, p and q correct or $a^{12}c^3$
		$216a^{12}c^3$		A1 ISW Do not allow $6^3a^{12}c^3$
	<i>cas</i>			
				Total 2 marks

Question	Working	Answer	Mark	Notes
7	$\frac{9}{4} \left[\div \right] \frac{15}{7}$ oe		3	M1 for writing both mixed numbers as improper fractions. Do not need the division sign. Implied by the 2 nd M1
	eg $\frac{9}{4} \times \frac{7}{15}$ oe eg $\frac{135}{60} \times \frac{28}{60}$ oe			M1 for inverting the 2 nd fraction and showing multiplying or for writing the improper fractions over a common denominator
		$\frac{63}{60} = 1\frac{1}{20}$ or $\frac{21}{20} = 1\frac{1}{20}$		A1 dependent on both Method marks being awarded. For completion to the correct answer with full working shown. We need to see the improper fraction followed by the mixed number
				Total 3 marks

Question	Working	Answer	Mark	Notes
8	$3 \times 12x^2$ or $36x^2$		3	M1 for differentiating the first term correctly
	$\left[\frac{16}{x^2} \right] = 16x^{-2}$			M1 for rewriting the second term as $16x^{-2}$ This can be seen anywhere including in an expression for dy/dx May be implied by $-2 \times 16x^{-3}$ oe
		$36x^2 - 32x^{-3}$		A1 oe eg $36x^2 - \frac{32}{x^3}$ Need not be simplified eg allow $3 \times 12x^2 - 2 \times 16 \times x^{-3}$
				Total 3 marks

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