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^pc^q with 2 of m, p and q correct or $a^{12}c^3$
			$216a^{12}c^3$		A1 ISW Do not allow $6^3a^{12}c^3$
		cas			**Total 2 marks**

Question		Working	Answer	Mark	Notes
7		$\frac{9}{4}[\div]\frac{15}{7}$ oe		3	M1 for writing both mixed numbers as improper fractions. Do not need the division sign. Implied by the 2nd M1
		eg $\frac{9}{4}\times\frac{7}{15}$ oe eg $\frac{135}{60}\times\frac{28}{60}$ oe			M1 for inverting the 2nd 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
		wr			**Total 3 marks**

Question		Working	Answer	Mark	Notes
8		$3\times12x^2$ 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 $-2\times16x^{-3}$ oe
			$36x^2-32x^{-3}$		A1 oe eg $36x^2-\frac{32}{x^3}$ Need not be simplified eg allow $3\times12x^2-2\times16\times x^{-3}$
		cas			**Total 3 marks**

Question	Working	Answer	Mark	Notes