

Q	Marking instructions	AO	Marks	Typical solution
4(a)	Obtains 2	1.2	B1	2
	Subtotal		1	

Q	Marking instructions	AO	Marks	Typical solution
4(b)	Uses at least one log rule correctly or substitutes a value of $a > 0$ correctly into the full expression leading to a positive value	1.1a	M1	$\log_a \sqrt{a} - \log_a \frac{1}{a^2} = \frac{1}{2} - -2$ $= \frac{5}{2}$
	Obtains 2.5 Do not ISW	1.1b	A1	
	Subtotal		2	

	Question 4 Total		3	
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