

Q	Marking instructions	AO	Marks	Typical solution
9	Uses a log (or index) law correctly on an algebraic term $\log A \pm \log B$ $n \log A$	1.1b	B1	
	Raises 2 to the power of both sides (removal of \log_2) Or writes 9 as $9\log_2 2$ or $\log_2 512$ OE	1.1a	M1	$\log_2 x^3 - \log_2 y^2 = 9$ $\log_2 \frac{x^3}{y^2} = 9$ $\frac{x^3}{y^2} = 2^9$
	Obtains correct equation without logs Or obtains $\log_2(x) = \log_2(8y^{2/3})$	1.1b	A1	$x^3 = 2^9 y^2$ $x = 8y^{\frac{2}{3}}$
	Completes a reasoned argument to obtain $x = 8y^{\frac{2}{3}}$	2.1	R1	
Question 9 Total			4	