

Question			Answer	Mark	AO	Guidance
1	(a)		DR $x^2 - 11 = 25$ $[x^2 = 36] \Rightarrow x = \pm 6$	M1 A1 [2]	1.1 1.1	Square both sides
1	(b)		DR $(y^3)^2 + 7y^3 - 8 = 0$ or $u = y^3$ $(y^3 + 8)(y^3 - 1) = 0$ or $(u + 8)(u - 1) = 0$ $y^3 = -8$ or 1 or $u = -8$ or 1 $y = -2$ or 1	M1 B1 A1 A1 [4]	1.1 1.1 1.1 1.1	soi (implied by B1) Allow other letters but not $y = y^3$ Correct working or use of formula to solve a quadratic in u, y^3 oe. Condone omission of $= 0$ and sign errors for this mark (NB answers only without working scores 0/4)
1	(c)		DR $3z - 10 = 4$ $z = \frac{14}{3}$ or 4.67 (3sf)	M1 A1 [2]	1.1 1.1	May see additional earlier working including logs or 2^{10} etc. but award M1 for a correct linear equation in z only. Allow alternative forms e.g. $3z - 10 = \log_2 16$ but must be a linear equation in z