Question	Answer	Mark	Mark scheme	Additional guidance
16 (a)	Shown	C1	for showing values of –5 and 10 leading to the conclusion	
(b)	Shows re-arrangement	C1	for showing re-arrangement must see $2x^3 = 8 - x$ or $x^3 = \frac{8-x}{2}$ leading to $x = \sqrt[3]{\frac{8-x}{2}}$	Can work backwards No incorrect steps allowed
(c)	1.483	M1	for substitution to find x_1 eg $\sqrt[3]{\frac{8-1.5}{2}} \left(=1.48(1248034)\right)$	Accept an accuracy of 2dp or more rounded or truncated for x_1
		M1	for substitution to find x_2 eg $\sqrt[3]{\frac{8-"1.48(1248034)"}{2}}$ (=1.482(671093))	Accept an accuracy of 3dp or more rounded or truncated for x_2
		A1	for awrt 1.483	For reference x_3 = 1.482563195 If correct answer is seen and then incorrectly rounded award full marks