6 (a)	$3x^3 - 17x^2 - 6x = 0 \Rightarrow x(3x^2 - 17x - 6) = 0$	M1	1.1a
	$\Rightarrow x(3x+1)(x-6) = 0$	dM1	1.1b
	$\Rightarrow x = 0, -\frac{1}{3}, 6$	A1	1.1b
		(3)	
(b)	Attempts to solve $(y-2)^2 = n$ where <i>n</i> is any solution ≥ 0 to (a)	M1	2.2a
	Two of $2, 2 \pm \sqrt{6}$	A1ft	1.1b
	All three of $2, 2 \pm \sqrt{6}$	A1	2.1
		(3)	
(6 marks)			
Notes (a) M1: Factorises out or cancels by x to form a quadratic equation. dM1: Scored for an attempt to find x. May be awarded for factorisation of the quadratic or use of the quadratic formula.			
A1: $x = 0, -\frac{1}{3}, 6$ and no extras (b)			
M1: Attempts to solve $(y-2)^2 = n$ where n is any solution ≥ 0 to (a). At least one stage of working must be seen to award this mark. Eg $(y-2)^2 = 0 \Rightarrow y = 2$			
A1ft: Two of 2, $2 \pm \sqrt{6}$ but follow through on $(y-2)^2 = n \Rightarrow y = 2 \pm \sqrt{n}$ where <i>n</i> is a positive solution to part (a). (Provided M1 has been scored)			

A1: All three of $2, 2 \pm \sqrt{6}$ and no extra solutions. (Provided M1A1 has been scored)

Scheme

Marks

AOs

Question