Quest numb		Scheme	Marks
4 (a) (i)		$x - \frac{1}{2x^2} = \frac{2x^3 - 1}{2x^2}$	B1
(ii)		$x = \sqrt[3]{0.5} \implies 2x^3 = 1 \implies y = 0,  x \approx 0.8$	M1,A1 [3]
(b)		$x = \sqrt[3]{0.5} \implies 2x^3 = 1 \implies y = 0,  x \approx 0.8$ $4 - 2x + \frac{1}{2x^2} = 0  x - \frac{1}{2x^2} = 4 - x$	M1
		Draw $y = 4 - x$ , $x = 2.1$ or 2.0	dM1,A1 [3]
Total 6 marks			
Notes			
(a) (i)	В1	Correct fraction only $\frac{2x^3-1}{2x^2}$ Award when seen, and isw any attempts to simplify	
(ii)	Substitutes $x = \sqrt[3]{0.5}$ into $y = \frac{2x^3 - 1}{2x^2} \Rightarrow y = \frac{2(\sqrt[3]{0.5})^3 - 1}{2(\sqrt[3]{0.5})^2} = \frac{11 - 1}{2(\sqrt[3]{0.5})}$		(=0)
		and uses the graph to write a value for $x$ for their value of $y$ . If there is no working with just an answer given here - M0 Minimum working we need to see; $y = 0 \Rightarrow x \approx 0.8$ or $y = 0 \Rightarrow x = 0.8$	
	A1 $x = 0.8$ only. More digits implies a calculator answer so is A0.		
(b)			
	dM	Draws their line correctly.  Coordinates of the correct line are (0, 4) (1, 3) (2,2) (3, 1), (4, 0)  and identifies a value of x for their intersection.	
	A1	For either $x = 2.1$ or 2.0 only	