

Question number	Scheme								Marks
4 (a)	x	0.5	1	1.5	2	2.5	3	3.5	B2
	y	10	5	4.89	5.5	6.32	7.22	8.16	(2)
(b)	Drawn								B1ft B1ft (2)
(c)	$2x+1+\frac{2}{x^2}=8$ $x=0.6 \quad x=3.4$								M1 A1 (2)
(d)	$2x+1+\frac{2}{x^2}=\frac{1}{2}x+6$								M1 A1
	$y=\frac{1}{2}x+6$ drawn								M1
	$x=0.7 \quad x=3.2$								A1 A1 (5)
									[11]
	Notes								
(a) B2	For all 4 values correct (B1 for at least 2 values correct)								
(b) B1ft B1ft	For points plotted ft their table (allow half square tolerance) For points joined together with a smooth curve ft their table								
(c) M1	For $2x+1+\frac{2}{x^2}=8$ may be implied by [y =] 8 identified on the graph								
A1 (d)	For 0.6 and 3.4 (Allow 0.7 for 0.6)								
M1	For adding $\frac{1}{2}x$ to both sides of the equation or adding 1 to both sides of the equation								
A1	For $2x+1+\frac{2}{x^2}=\frac{1}{2}x+6$								
M1	For $y=\frac{1}{2}x+6$ drawn								
A1	For 0.7 (allow 0.8)								
A1	For 3.2 (allow 3.3)								