Question Number	Answer	Notes	Marks
7	(a) x: 0.8 | 1 | 1.5 | 1.7 | 2 | 2.5 | 3 | 4 y: 5.41 | **3** | 1.22 | **1.13** | **1.25** | 1.8 | **2.56** | 4.31	B2	
	(b) Draw graph	B1 points B1 curve	
	(c) $2x-4+\frac{5}{x^2}=2$ $x=1.2$ or 1.1 $(1.168...)$, 2.6 or 2.7 (2.642....)	M1 A1	
	(d) $2x-4+\frac{5}{x^2}=-2x+8$ Draw $y=-2x+8$ $x=2.8$ or 2.9 $(2.846...)$	M1A1 M1 A1	**(10)**

Notes

(a)

B2 for all four correct values, or

B1 for two or three correct values (allow y = 3.00 for x = 1)

(b)

B1ft for **their** points plotted correctly to within half of a square

B1ft All their points joined in a smooth curve drawn through their points within half a square accuracy. Do not accept sharp points or straight lines

(c)M1 for rearranging $2x+\frac{5}{x^2}=6$ to give $2x-4+\frac{5}{x^2}=2$ (or for line (or for line $y=2$ seen on the graph)

A1 for x = 1.1 or 1.2 AND x = 2.6 or 2.7

(d)

M1 for attempting to rearrange $4x+\frac{5}{x^2}=12$ to give $2x-4+\frac{5}{x^2}=ax\pm b$

A1 for a fully correct equation $2x-4+\frac{5}{x^2}=-2x+8$

M1d for attempting to draw their $y=-2x+8$, provided it is in the form $y=ax\pm b$, where a or $b\neq 0$

{ $y=-2x+8$ goes through points (4,0) (3,2) (2,4) (1,6) (0,8)}

A1 for x = 2.8 or 2.9 (2.846…)