Question number	Answer	Notes	Marks
3 (a)	planet;		1
(b)	comet;	accept planet	1
(c)	substitution into given formula; conversion of 35 days into seconds; evaluation; e.g. $v = 2 \times \pi \times 1.5 \times 10^{11}/(35 \times 24 \times 60 \times 60)$ $v = 310\ 000\ m/s$	allow full credit for 2.6927937 × 10 ¹⁰ if unit changed to m/day.	3
		311665.93(7)8 Answer for incorrect/no conversion of days→ seconds 2.69etc x 10 ¹⁰ scores 2 -1 for POT error	

(Total for Question 3 = 5 marks)