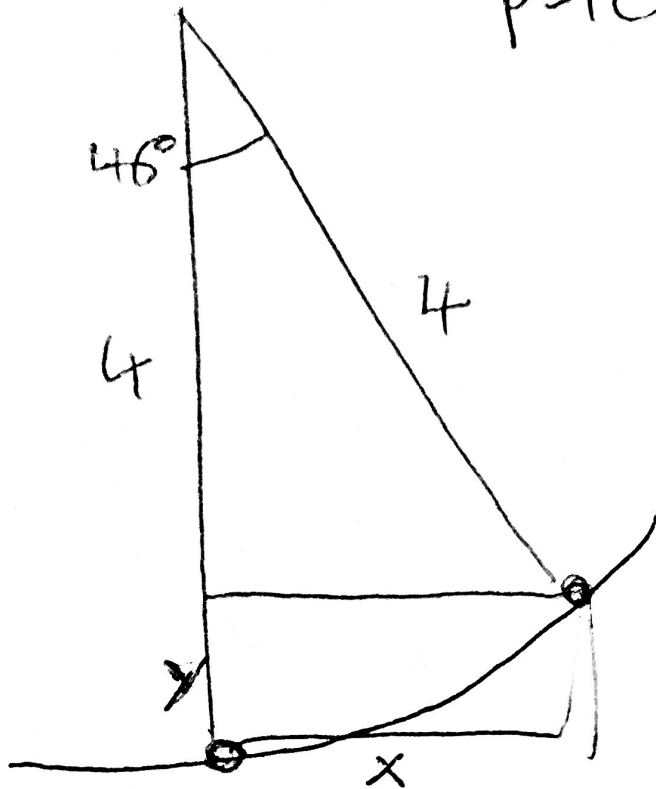


Orbital Period

$$p = 10 \text{ s}$$



$$x = 4 \sin 46^\circ$$

$$y = 4 - 4 \cos 46^\circ$$

$$d = \sqrt{x^2 + y^2} \quad t = \frac{46^\circ}{360^\circ} \times 10$$

$$v = \frac{d}{t}$$

$$= \frac{\sqrt{(4 \sin 46^\circ)^2 + (4 - 4 \cos 46^\circ)^2}}{\frac{46}{360}}$$