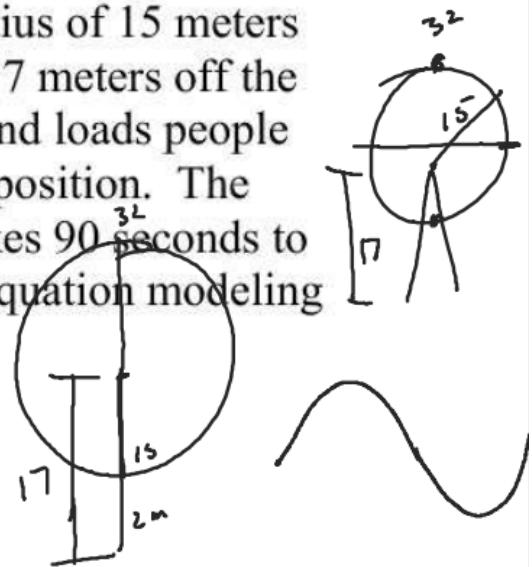


A Ferris wheel in London has a radius of 15 meters and the center of the wheel is set at 17 meters off the ground. It turns counterclockwise, and loads people from a tower at the 3:00 (3 o'clock) position. The wheel turns at a constant rate and takes 90 seconds to complete one revolution. Write an equation modeling this periodic function.

$$\text{max} = 32$$

$$\text{min} = 2$$

$$A = \frac{\text{max} - \text{min}}{2}$$



$$y = 15 \sin \frac{2\pi}{90} t + 17$$

$$15 \sin \frac{\pi}{45} t + 17$$