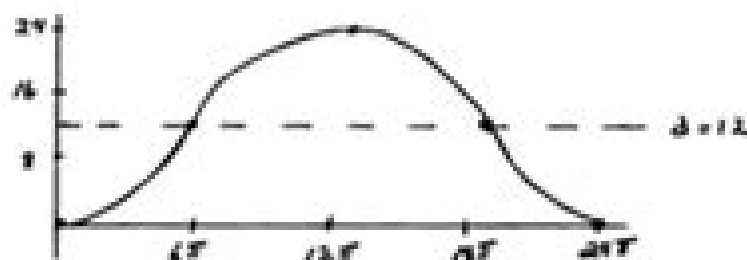


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1.

a.

$$\text{Period} = \text{Circumference} = \pi d = 24\pi \approx 75.4 \text{ inches}$$



b.

$$a = \frac{\text{max} - \text{min}}{2} = \frac{24 - 0}{2} = 12 \text{ inches} \quad b = \frac{2\pi}{34\pi} = \frac{1}{12} \approx 0.083$$

c. 'period' begins $\frac{3}{4}$ of the period length to the right of the minimum value

$$\frac{3}{4} \text{ of } 34\pi = 6\pi \approx 18.85$$

$$d = \frac{\text{max} - \text{min}}{2} = \frac{24 - 0}{2} = 12 \text{ inches}$$

$$y = 12 \sin \frac{1}{12}(x - 6\pi) + 12$$

c.

$$\text{At 15 inches: } y = 12 \sin \frac{1}{12}(15 - 6\pi) + 12 \approx 8.2 \text{ inches above the pavement.}$$

$$\text{At 100 inches: } y = 12 \sin \frac{1}{12}(100 - 6\pi) + 12 \approx 17.5 \text{ inches above the pavement.}$$

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