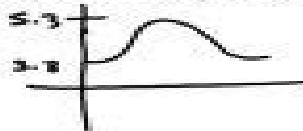


0 Sinusoidal Word Problems

1. The height of the tip of an airplane propeller above the ground, once the engines reach full speed, can be modelled by a sinusoidal function. The propeller makes 200 revolutions per second. At $t=0$ the tip of the propeller is at a minimum height above the ground at 3.8m. Its maximum height is 5.3m. Model this with an equation.



200 rps

$$\text{amp} \quad \frac{5.3 - 3.8}{2} = 0.75$$

$$\text{axis} \quad \frac{5.3 + 3.8}{2} = 4.55$$

$$\begin{aligned} 200 \text{ rev take 1 sec} \\ 1 \text{ rev} \quad 1 \div 200 = 0.005 \text{ period} \end{aligned}$$

$$\frac{360}{K} = 0.005$$

$$\begin{aligned} K &= \frac{360}{0.005} \\ &= 72000 \end{aligned}$$

$$\begin{aligned} h(t) &\quad \leftarrow y = -0.75 \cos 72000t + 4.55 \\ &\quad \leftarrow h = -0.75 \cos 7200t + 4.55 \end{aligned}$$

$$\begin{aligned} h &\quad \cos \theta \\ h &\quad -\cos \theta \end{aligned}$$

$$\begin{aligned} h &\quad \sin \theta \\ h &\quad -\sin \theta \end{aligned}$$

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