

# PROBLEM 12.71

**PROBLEM 12.71** The airplane in the previous problem is now in the horizontal position and is flying at a constant speed, 400 ft/sec, maintaining constant altitude. The pilot wishes to pull up and perform a loop.

**Find:** Calculate for a loop which is just a half-circle, determine the minimum altitude at which the pilot must enter the loop so as to ensure sufficient free-fall energy for the loop.

**ASSUMPTIONS:** No frictional forces.

**SOLUTION:** The free-body diagram of the airplane is shown. The forces acting on it are the weight  $W$  and the lift  $L$ . The lift  $L$  is perpendicular to the path of the airplane. The weight  $W$  is the weight of the airplane.



**ASSUMPTION:** The loop is a half-circle.

$$\begin{aligned} \text{Total } W &= \int_0^{\pi} W \sin \theta \, d\theta = \int_0^{\pi} W \sin \theta \, d\theta = \frac{W}{\sin \theta} \left[ -\cos \theta \right]_0^{\pi} \\ &= \frac{W}{\sin \theta} (-\cos \pi + \cos 0) = \frac{W}{\sin \theta} (1 + 1) = \frac{2W}{\sin \theta} \end{aligned} \quad (1)$$

The gravitational potential energy is

$$\begin{aligned} \text{Total } W &= \int_0^{\pi} W \sin \theta \, d\theta = \int_0^{\pi} W \sin \theta \, d\theta = \frac{W}{\sin \theta} \left[ -\cos \theta \right]_0^{\pi} \\ &= \frac{W}{\sin \theta} (-\cos \pi + \cos 0) = \frac{W}{\sin \theta} (1 + 1) = \frac{2W}{\sin \theta} \end{aligned} \quad (2)$$

**Let:** The change in kinetic energy is calculated for the vertical loop. The total energy is

$$\text{Total } W = \int_0^{\pi} W \sin \theta \, d\theta = \int_0^{\pi} W \sin \theta \, d\theta = \frac{W}{\sin \theta} \left[ -\cos \theta \right]_0^{\pi} = \frac{2W}{\sin \theta}$$

**Then,** solving for  $W$ , we get

$$\begin{aligned} W &= \frac{2W}{\sin \theta} \left[ -\cos \theta \right]_0^{\pi} = \frac{2W}{\sin \theta} (-\cos \pi + \cos 0) = \frac{2W}{\sin \theta} (1 + 1) = \frac{4W}{\sin \theta} \\ &= \frac{4W}{\sin \theta} \left[ -\cos \theta \right]_0^{\pi} = \frac{4W}{\sin \theta} (-\cos \pi + \cos 0) = \frac{4W}{\sin \theta} (1 + 1) = \frac{8W}{\sin \theta} \\ &= \frac{8W}{\sin \theta} \end{aligned}$$

$$\text{Total } W = \int_0^{\pi} W \sin \theta \, d\theta = \int_0^{\pi} W \sin \theta \, d\theta = \frac{W}{\sin \theta} \left[ -\cos \theta \right]_0^{\pi} = \frac{2W}{\sin \theta} \quad (3)$$

**For part (b), the velocity of the airplane is constant.**

# Fundamentals Of Engineering Thermodynamics 5th Solution Manual

**S. Can Gülen**



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