

EXAMPLE 7-3

GRAVITY ESCAPE SYSTEM

RWP* In a gravity escape system (GES), an enclosed lifeboat on a large ship is deployed by letting it slide down a ramp and then continue in free fall to the water below. Suppose a 4970-kg lifeboat slides a distance of 5.00 m on a ramp, dropping through a vertical height of 2.50 m. How much work does gravity do on the boat?

PICTURE THE PROBLEM

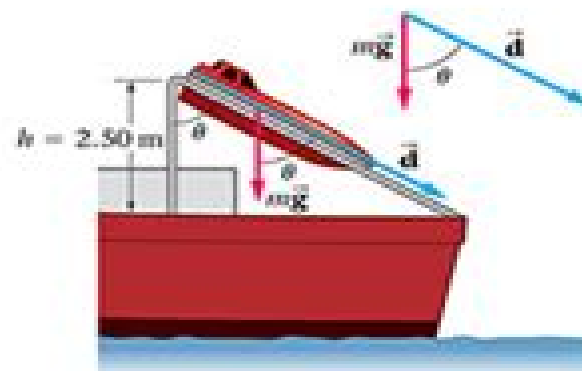
From our sketch, we see that the force of gravity $m\vec{g}$ and the displacement $\vec{d}$ are at an angle θ relative to one another when placed tail-to-tail, and that θ is also the angle the ramp makes with the vertical. In addition, we note that the vertical height of the ramp is $h = 2.50$ m and the length of the ramp is $d = 5.00$ m.

REASONING AND STRATEGY

By definition, the work done on the lifeboat by gravity is $W = Fd \cos \theta$, where $F = mg$, $d = 5.00$ m, and θ is the angle between $m\vec{g}$ and $\vec{d}$. We are not given θ in the problem statement, but from the right triangle that forms the ramp we see that $\cos \theta = h/d$. Once θ is determined from the geometry of our sketch, it is straightforward to calculate W .

Known Mass of lifeboat, $m = 4970$ kg; sliding distance, $d = 5.00$ m; vertical height, $h = 2.50$ m.

Unknown Work done by gravity, $W = ?$



SOLUTION

1. First, find the component of $\vec{F} = m\vec{g}$ in the direction of motion:

$$\begin{aligned} F \cos \theta &= (mg) \left(\frac{h}{d} \right) \\ &= (4970 \text{ kg})(9.81 \text{ m/s}^2) \left(\frac{2.50 \text{ m}}{5.00 \text{ m}} \right) = 24,400 \text{ N} \end{aligned}$$

2. Multiply by distance to find the work:

$$W = (F \cos \theta)d = (24,400 \text{ N})(5.00 \text{ m}) = 122,000 \text{ J}$$

3. Alternatively, cancel d algebraically before substituting numerical values:

$$\begin{aligned} W &= Fd \cos \theta = (mg)(d) \left(\frac{h}{d} \right) \\ &= mgh = (4970 \text{ kg})(9.81 \text{ m/s}^2)(2.50 \text{ m}) = 122,000 \text{ J} \end{aligned}$$

INSIGHT

The work is simply $W = mgh$, exactly the same as if the lifeboat had fallen straight down through the height h .

Working the problem symbolically, as in Step 3, results in two distinct advantages. First, it makes for a simpler expression for the work. Second, and more important, it shows that the distance d cancels; hence the work depends on the height h but not on the distance. Such a result is not apparent when we work solely with numbers, as in Steps 1 and 2.

PRACTICE PROBLEM

Suppose the lifeboat slides halfway to the water, gets stuck for a moment, and then starts up again and continues to the end of the ramp. What is the work done by gravity in this case? [Answer: The work done by gravity is exactly the same, $W = mgh$, independent of how the boat moves down the ramp.]

Some related homework problems: Problem 10, Problem 11

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