

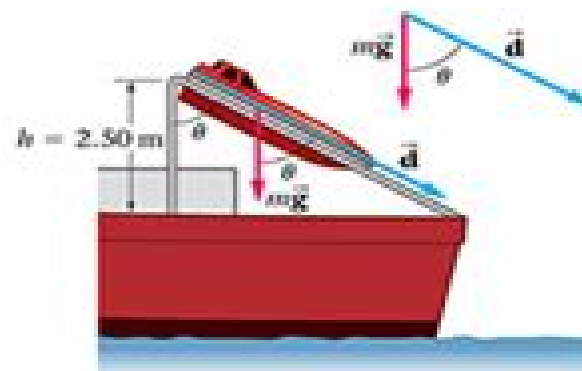
EXAMPLE 7-3

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 mg 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 mg 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 $\vec{F} = mg$ 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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