

Questions 8-10: A 0.5-kg block slides down a frictionless ramp.

$m = 0.5 \text{ kg}$



8. Find the magnitude of the block's acceleration.

$$\Sigma F_x = ma_x$$

$$-mg \sin 30^\circ = ma_x$$

$$a_x = -g \sin 30^\circ = -5 \text{ m/s}^2$$

$$a_x = 5 \text{ m/s}^2$$

Magnitude we only need the size (no sign)

9. Find the work done by the normal force on the block as it slides down the full length of the incline.

$$W = 0 \text{ J}$$

The normal force is perpendicular to the distance moved.

The normal force is not responsible for the motion.

10. Let's say there is a frictional force present. If the block reaches the bottom of the ramp with a speed of 8 m/s; (a) how much energy was lost to friction? (b) how much work did friction do on the block?

(a) At the top $U = mgh = (0.5 \text{ kg})(10 \text{ m/s}^2)(2 \text{ m}) = 25 \text{ J}$

At the bottom $K = \frac{1}{2}mv^2 = \frac{1}{2}(0.5 \text{ kg})(8 \text{ m/s})^2 = 16 \text{ J}$

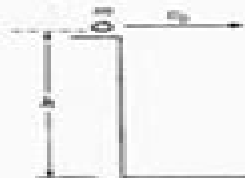
9 J are missing therefore 9 J were lost to friction.

(b) $W = \Delta E = -9 \text{ J}$



Friction did -W on the block.

Questions 11-12: The system is closed and isolated.



A rock of mass m is thrown horizontally off a building from a height $h = 2$ meters as shown above. The speed of the rock as it leaves the thrower's hand at the edge of the building is $v_0 = 2 \text{ m/s}$.

11. How much time does it take the rock to travel from the edge of the building to the ground?

$$\Delta y = v_{0y}t + \frac{1}{2}a_y t^2$$

$$\sqrt{\frac{2\Delta y}{a_y}} = t$$

$$t = \sqrt{\frac{2(2 \text{ m})}{10 \text{ m/s}^2}}$$

$$t = 0.63 \text{ s}$$

12. How does the mechanical energy of the system differ from the moment the rock leaves the cliff to the instant before the rock strikes the ground?

It remains the same.

$$U_i + K_i = U_f + K_f$$

$$K_f = U_i + K_i$$

13. A force F pulls on a 20-kg crate with 100 N. As a result of the constant force, the crate moves 3 m along the horizontal surface. The angle θ shown is 30° .



(a) Find the work done by the force F .

$$W = Fd \cos \theta$$

$$W = (100 \text{ N})(3 \text{ m}) \cos 30^\circ = 260 \text{ J}$$

(b) Find the work done by friction f if the coefficient of friction (μ) is 0.10.



$$f = \mu n$$

Too much work here. Let's skip it but if you're confused, it will be like this

$$n = mg - F \sin \theta$$

$$W = -f \cdot d$$

$$W = -(\mu(mg - F \sin \theta))d$$

14. A steel ball of mass m is released from rest from a height $L = 1.25 \text{ m}$. At the bottom of its path, the ball strikes a block of unknown material but with a mass M . (a) Find the speed at which the steel ball will hit the block. (b) Find the speed the block acquires after it is hit if the steel ball stops completely upon collision.



NOTE

$$Let \ m = 1 \text{ kg}$$

$$M = 2 \text{ kg}$$

(a) $U_i + K_i = U_f + K_f$

$$U_i = K_f$$

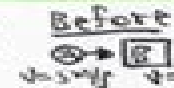
$$mgh = \frac{1}{2}mv^2$$

$$v = \sqrt{2gh}$$

$$v = \sqrt{2(10 \text{ m/s}^2)(1.25 \text{ m})}$$

$$v = 5 \text{ m/s}$$

(b)



Before

After

$$m_A v_{Ai} + m_B v_{Bi} = m_A v_{Af} + m_B v_{Bf}$$

$$m_A v_{Ai} = m_B v_{Bf}$$

$$(1)(5) = (2)v_{Bf}$$

$$v_{Bf} = 2.5 \text{ m/s}$$

Pre Ap Physics Final Review Answers

Marco Cascella



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