

Problem: A ball is dropped from a height of 20 meters. Calculate its velocity just before hitting the ground. (Assume acceleration due to gravity, g , is 9.8 m/s^2)

Solution:

Using the equation of motion:

$$\text{Final velocity}^2 = \text{Initial velocity}^2 + 2 \times \text{Acceleration} \times \text{Distance}$$

At the top, initial velocity $V_0 = 0$, so:

$$\text{Final velocity}^2 = 0 + 2 \times 9.8 \text{ m/s}^2 \times 20 \text{ m}$$

$$\text{Final velocity} = \sqrt{2 \times 9.8 \text{ m/s}^2 \times 20 \text{ m}}$$

$$\text{Final velocity} \approx \sqrt{392} \text{ m/s} \approx 19.8 \text{ m/s}$$

Problem: A block of mass 2 kg is placed on a frictionless inclined plane with an angle of 30 degrees. Calculate the acceleration of the block down the incline if a force of 10 N is applied parallel to the plane.

Solution:

Resolve the applied force into components:

Force parallel to the incline = $10 \text{ N} \times \sin(30^\circ) = 5 \text{ N}$

Using Newton's second law along the incline:

Force = Mass \times Acceleration

$5 \text{ N} = 2 \text{ kg} \times \text{Acceleration}$

Acceleration = 2.5 m/s^2

Problem: A spring with a force constant of 200 N/m is compressed by 0.1 meters. Calculate the potential energy stored in the spring.

Solution:

Potential Energy = $0.5 \times \text{Force Constant} \times (\text{Compression})^2$

Potential Energy = $0.5 \times 200 \text{ N/m} \times (0.1 \text{ m})^2$

Potential Energy = 1 J



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