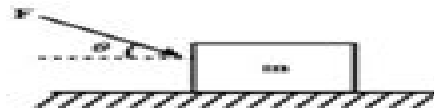




UNIT 4: DYNAMICS

- Dynamics is a branch of mechanics concerned with the motion of an object
 - Whose velocity is constant
 - Under the action of balanced forces
 - Without its causes
 - Under the action of forces
- What is the necessary and sufficient condition for conservation of linear momentum?
 - The presence of more linear than nonlinear forces in the system.
 - Net force on the system is zero.
 - The presence of only non-linear forces.
 - Internal forces exceed external forces.
- A block slides on a rough 45° incline. The coefficient of friction between block and incline is μ_k . What is the ratio of acceleration when the block accelerates down the inclined to the acceleration when the block is projected up the incline?
 - $\frac{\mu_k - 1}{\mu_k + 1}$
 - $\frac{\frac{\mu_k}{2} - 1}{\mu_k + 1}$
 - $\frac{1 - \mu_k}{1 + \mu_k}$
 - $\frac{1 + \mu_k}{1 - \mu_k}$
- A block of mass m is placed on horizontal surface. The coefficient of static friction between the block and the surface is μ . A force of magnitude F acts on the block at an angle θ as shown in the figure below.



- $\frac{\mu mg}{\cos\theta - \mu \sin\theta}$
 - $\frac{\mu mg}{\cos\theta + \mu \sin\theta}$
 - $\frac{\mu mg}{\cos\theta - \sin\theta}$
 - $\frac{\mu mg}{\cos\theta + \sin\theta}$
- A car (mass m_1) is driving at initial velocity u , when it smashes into an unmoving car (mass m_2), locking bumpers. Both cars move together at the same velocity. The common velocity will be given by:
 - $\frac{m_1 u}{m_2}$
 - $\frac{m_2 u}{m_2}$
 - $\frac{m_1 u}{m_1 + m_2}$
 - $\frac{(m_1 + m_2) u}{m_1}$
 - Three blocks of mass m_1 , m_2 and m_3 , are connected by thread and placed on a smooth horizontal surface as shown in the figure 4 below. A force F is applied on the block of mass m_3 in forward direction as shown. Neglecting friction, find the tension in the thread connecting m_1 and m_2 .



- $\frac{m_1 F}{m_1 + m_2 + m_3}$
 - $\frac{m_2 F}{m_1 + m_2 + m_3}$
 - $F - \frac{m_3 F}{m_1 + m_2 + m_3}$
 - $\frac{(m_2 + m_3) F}{m_1 + m_2 + m_3}$
- For a constant force F , if the impulse imparted to the system is large, then what can you conclude about the collision?
 - Linear momentum is conserved.
 - Kinetic energy is conserved.
 - The contact or impact time is large.
 - The change in velocity is small.
 - A 4kg block is given an initial speed of 8m/s at the bottom of 300 inclined plane. The frictional force that retards its motion is 15N. If the block is directed up the inclined plane, how far will it move before it stops?
 - 3.66m
 - 4.40m
 - 3.35m
 - 4.67m

Unit 4 Review Sheet Physics Gpb Answers

Bruce Schmidt

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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