ФЛАГ

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Short answer

5. write some examples of contact and none contact force.

Contact force

frictionalforce

Non- contact force

magneticforce

Work out problems show all necessary steps clearly.

6. A track covers 100m in 10s while smoothly slowing down to a final speed of 2m/s.

Find

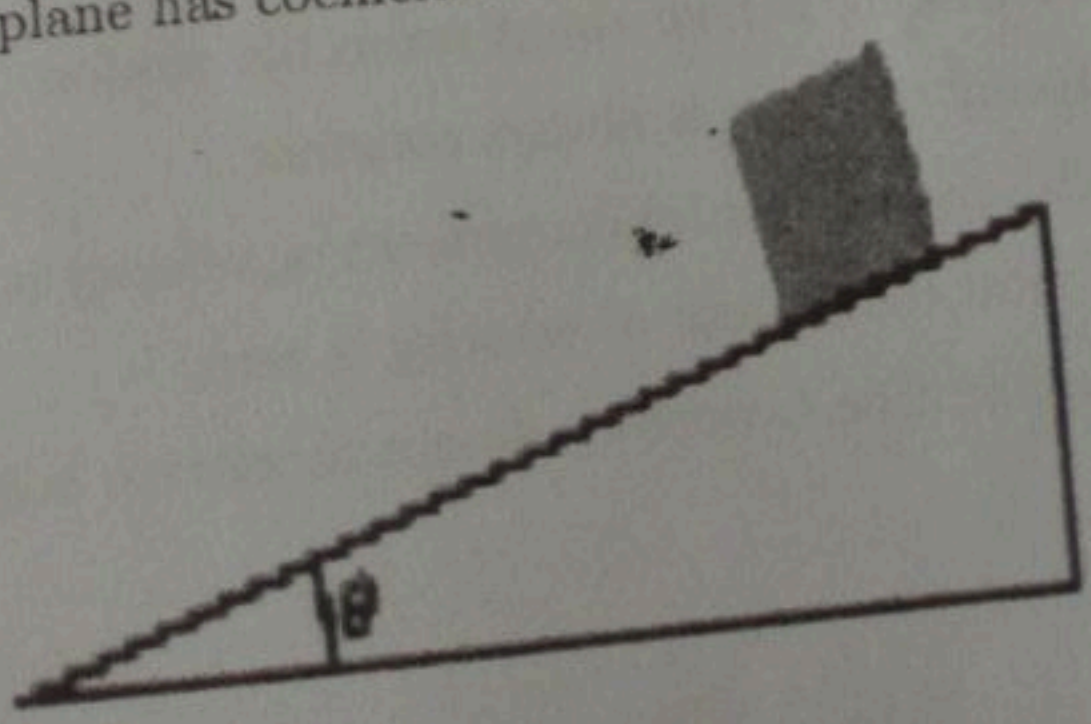
a. Its original speed

b. Its acceleration

7. Given three Vectors $\vec{A}$= 2i-6j-k , $\vec{B}$ = -i+2j+6k and $\vec{C}$ = -3i+j+2k find a unit vector in the direction of $(\vec{A} + 2\vec{B} - \vec{C})$

8. A projectile is fired in such a way that its horizontal range is equal to three times its maximum height. What is the angle of projection?

9. A block of mass m slides down an inclined plane with $\theta = 45^0$as shown in the figure below. Find the acceleration of the block. (a)If the inclined plane is frictionless. (b)If the inclired plane has coefficient of kinetic friction μ_k= 0.3



Collage of Natural and Computational Science Department of Physics

General Physics (Phys 1011) Mid exam.

For computer Science [redacted] extension program 2012ec.

Name [redacted] ID No [redacted] allowed 30'

1. If you multiply 0.25 and 0.1098 your approximate answer is

   A. 0.03 B. 0.027 C.0.028 D. 0.0275 E. ~~0.0~~28 none

2. The time interval needed by the jet, if a jet plane lands with a speed of 100m/s and slows down at a rate of $4m/s^2$ as it comes to rest is?

   A. 20 sec B. 22 Sec C 25 sec D 400 sec E. none

3. If a boy reels a stone and a piece of paper from the building simultaneously neglecting air resistance which one is arrived first to the surface of earth.

   A. a piece of paper B. both are arrived at the same time C. a stone D. both are note arrived E. none

4. which of the following is true about projectile motion.

   A. The horizontal distance is always constant. .

   B. The vertical and horizontal component of velocity is constant.

   C. The horizontal component of velocity is zero.

   D. The particle on The trajectory do not accelerate horizontally.

   E. none