

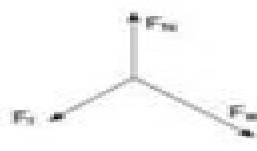
Dynamics-Ramps and Inclines

1. The diagram at right represents a block at rest on an incline.

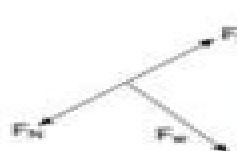
Which diagram below best represents the forces acting on the block? (F_f = frictional force, F_N = normal force, and F_w = weight.)



(1)



(2)

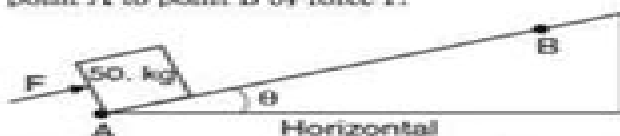


(3)



(4)

2. The diagram below shows a 50-kilogram crate on a frictionless plane at angle θ to the horizontal. The crate is pushed at constant speed up the incline from point A to point B by force F .



If angle θ were increased, what would be the effect on the magnitude of force F and the total work W done on the crate as it is moved from A to B?

1. W would remain the same and the magnitude of F would decrease.
 2. W would remain the same and the magnitude of F would increase.
 3. W would increase and the magnitude of F would decrease.
 4. W would increase and the magnitude of F would increase.
3. In the diagram below, a 10-kilogram block is at rest on a plane inclined at 15° to the horizontal.



As the angle of the incline is increased to 30° , the mass of the block will

1. decrease
2. increase
3. remain the same

4. A block weighing 10 newtons is on a ramp inclined at 30° to the horizontal. A 3-newton force of friction, F_f , acts on the block as it is pulled up the ramp at constant velocity with force F , which is parallel to the ramp, as shown in the diagram below.



(Vectors not drawn to scale)

What is the magnitude of force F ?

1. 7 N
2. 8 N
3. 10 N
4. 13 N

$$F_{\text{net},x} = F - F_f - mg \sin \theta = 0 \Rightarrow$$

$$F = F_f + mg \sin \theta = 3\text{ N} + 10\text{ N} \sin 30^\circ =$$

8 N

5. The diagram below shows a 1.0×10^3 -newton truck at rest on a hill that makes an angle of 8.0° with the horizontal.



What is the component of the truck's weight parallel to the hill?

1. 1.4×10^3 N
2. 1.0×10^4 N
3. 1.4×10^4 N
4. 9.9×10^4 N

$$mg_{\parallel} = mg \sin \theta = (10^3\text{ N}) \sin 8^\circ =$$

1.4×10^3 N

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