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so many fake sites. this is the first one which worked! Many thanks

Ramp Friction

Introduction: In this simulation, you will explore the forces that act on an object as it slides down a ramp. The ramp is inclined at an angle θ and the object has a mass m . The forces acting on the object are gravity, normal force, and friction. The normal force is perpendicular to the ramp, and the friction force is parallel to the ramp, pointing up the ramp.

Procedure: Use the simulation to explore the forces acting on the object as it slides down the ramp. Record your observations and answer the questions below.

1. In a horizontal plane, the normal force is perpendicular to the weight.
2. The normal force is constant in magnitude, direction, and point of application.
3. The normal force is perpendicular to the surface of the ramp.
4. The normal force is perpendicular to the surface of the ramp.
5. The normal force is perpendicular to the surface of the ramp.
6. The normal force is perpendicular to the surface of the ramp.
7. The normal force is perpendicular to the surface of the ramp.
8. The normal force is perpendicular to the surface of the ramp.
9. The normal force is perpendicular to the surface of the ramp.
10. The normal force is perpendicular to the surface of the ramp.

Mass	Angle	Normal Force	Friction Force	Net Force
10 kg	30°	84.9 N	50.0 N	34.9 N
10 kg	45°	70.7 N	70.7 N	0 N
10 kg	60°	51.9 N	86.6 N	34.7 N

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