Corbettmaths

Equilibrium - Inclined Plane

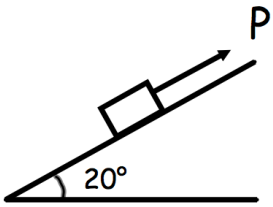
Mechanics

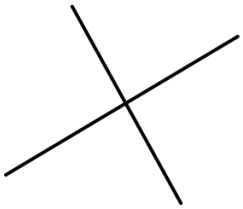
Video Tutorial

The component of gravity along the plane will be mgSinθ

The component of gravity perpendicular to the plane will be mgCosθ

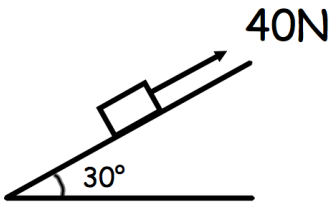
An object of 6kg is placed on a smooth inclined plane.
The object is prevented from sliding down the plane by force P.

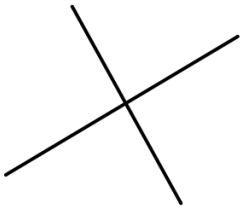




Find P

An object of m kg is placed on a smooth inclined plane.
The object is prevented from sliding down the plane by a force of 40N





(a) Find the mass of the object.
(b) Find the size of the normal reaction.