P12 - 3.6 - Dynamics Trig Fric Slope HMK

Find the acceleration of the force of 45 N on a 2 kg object hold at an angle of 15° above the horizontal with a coefficient of friction of 0.25.

Find the acceleration of the force of 160 N on a 50 kg object hold at an angle of 65° above the horizontal with a coefficient of friction of 0.15.

Find the mass of an object which accelerates at 12 m/s squared by a force of 140 N at an angle of 20° above the horizontal with a coefficient of friction of 0.1.

Find the force required to accelerate a 18 kg object at an angle of 55° above the horizontal with a coefficient of friction of 0.4.

P12 - 3.6 - Dynamics Fric Slope HMK

Find the acceleration of an 8 kg block sliding down a 40° frictionless slope.

Find the acceleration of an 26 kg block sliding down a 60° frictionless 60° slope.

Find the acceleration of a 5 kg block sliding down a 45° slope with a coefficient of friction of 0.2.

Find the acceleration of a 12 kg block sliding down a 20° slope with the coefficient of friction of 0.05.

P12 - 3.6 - Dynamics Pull Fric Slope HMK

Find the force required to accelerate a 12 kg object at 5 m/s squared up a frictionless 25° slope

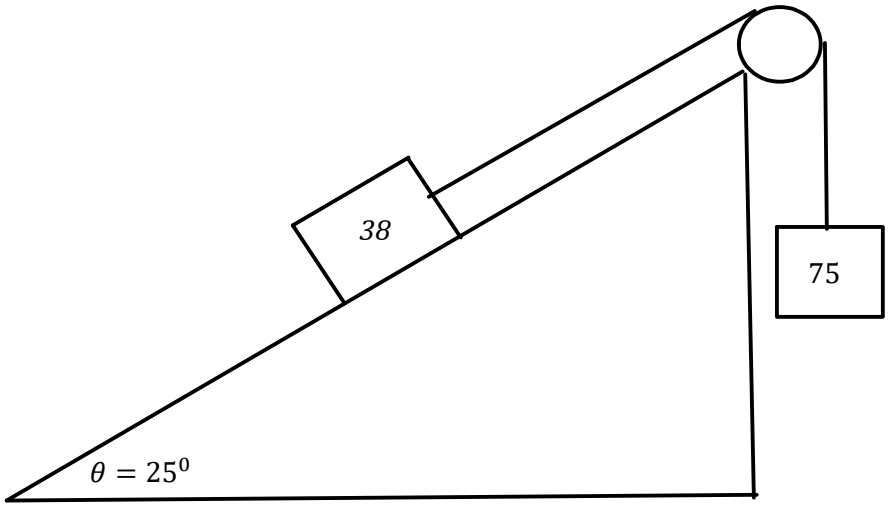
Find the acceleration of an 80 Newton force on a 8 kg object up a frictionless slope of 42°.

Find the force required to accelerate a 16 kg object at 3 m/s squared up a 35° slope with a coefficient of friction of 0.15.

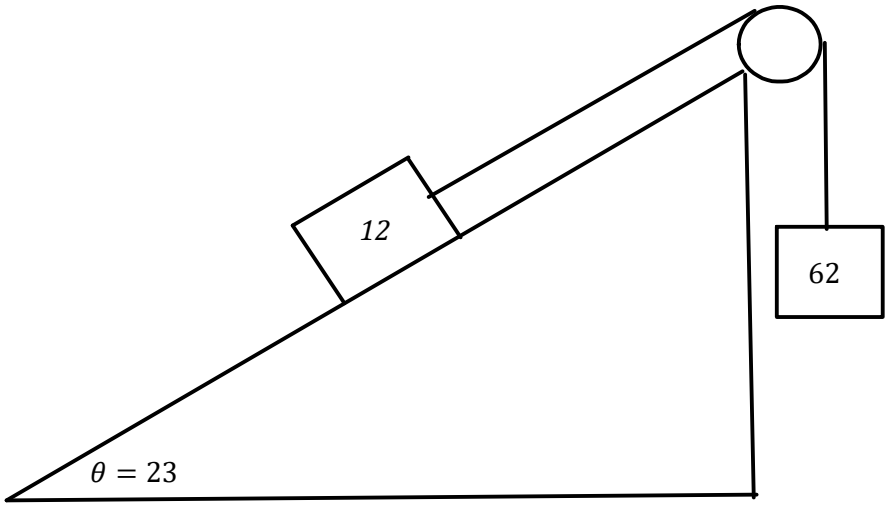
Find the acceleration of a 65 Newton force on a 10 kg object up a slope of 48° with the coefficient of friction of 0.2.

P12 - 3.6 - Dynamics Pulley Fric Up Slope HMK

Find the acceleration of the system and the tension on both blocks?

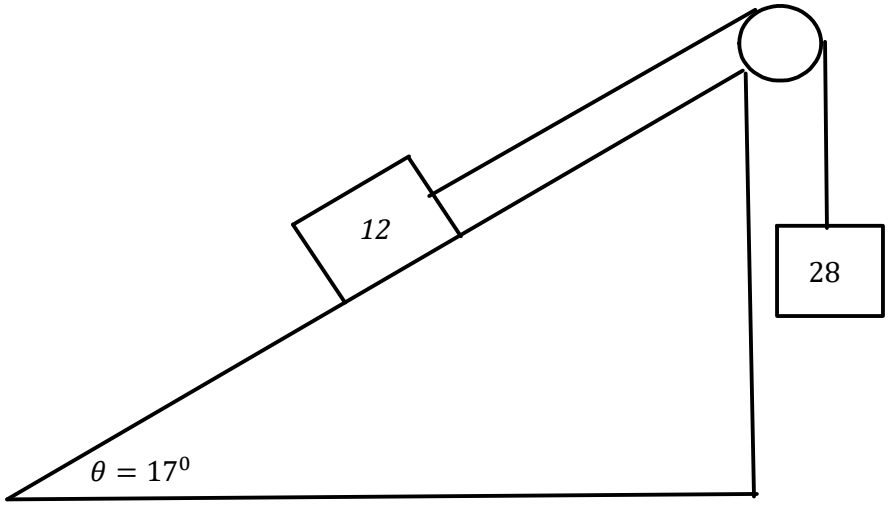


Find the acceleration of the system and the tension on both blocks?



P12 - 3.6 - Dynamics Pulley Fric Up Slope HMK

Find the acceleration of the system and the tension on both blocks?



Find the acceleration of the system and the tension on both blocks?