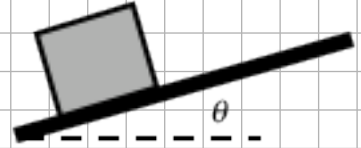


Problems tagged with standards:UFPM

20 A box of mass m slides with an initial velocity of $3 \frac{m}{s}$ down a ramp which is inclined 20° from the horizontal. The coefficient of kinetic friction between the ramp and box is .45.



- Determine the direction and magnitude of the acceleration of the box as it slides down the incline.
- Discuss the subsequent motion of the box (qualitatively - no numbers are necessary).