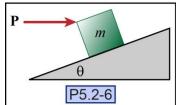
P5.2-6) A horizontal force P = 20 N pushes a 20-kg block up a 20°-degree incline. The kinetic coefficient of friction is 0.3. If the block starts at a speed of 10 m/s, up the incline, how far does the block move before it comes to a stop?



Given:	P5.2-6
<u>Find:</u>	
Solution:	
Draw a free-body diagram of the block.	Determine the acceleration of the block.
	Write down the block's equation of motion.
\mathbf{P}	
Calculate the kinetic friction force.	
	a =
	Use kinematics to determine the distanced traveled.