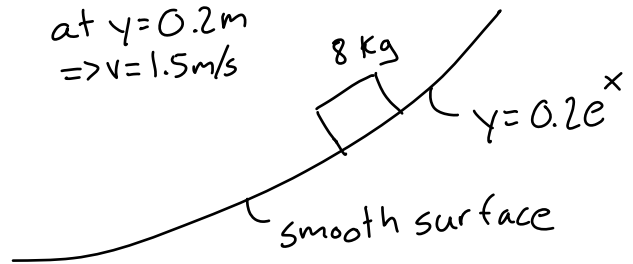


Kinetics of a Particle: Force and Acceleration

Problem Statement: The normal force and the rate of increase in speed at $y = 0.2\text{m}$.



- 1.) Determine the coordinate system.
- 2.) Draw the Free-Body Diagram and Kinetic Diagram.
- 3.) Apply $F = ma$.
- 4.) Apply kinematics to solve for additional unknowns.