

Physics 10154 - Quiz 4B

A 23.0 kg block is initially at rest on a frictionless slope angled 28.0° above the horizontal. An applied force of 85.0 N is directed parallel to and up the ramp as shown.

- In what direction does the block accelerate, up or down the ramp?
- What is the magnitude of the normal force acting on the block?
- After the 2.50 seconds have elapsed, how far has the block moved?

