

### **Physics 10154 - Quiz 6B**

A 12.4-kg block, starting from rest, slides DOWN the incline shown below, despite the applied force of 25.0 Newtons directed parallel to and up the incline. After moving through a displacement of 2.17 meters, the block is moving with a speed of 3.44 m/s.

- Determine the work done by the force of kinetic friction in this problem.
- Determine the coefficient of kinetic friction between the block and the surface.

