Velocity at the Bottom of Rough Wedge.

A body of mass m which is placed at the top of the wedge (of height h) starts moving downward on a rough inclined plane.

Loss of energy due to friction = FL (Work against friction)

PE at point A = mgh

KE at point
$$B = \frac{1}{2}mv^2$$

By the law of conservation of energy

i.e.
$$\frac{1}{2}mv^2 = mgh - FL$$

 $v = \sqrt{\frac{2}{m}(mgh - FL)}$

