

Physics 1114 - General Physics I

Quiz #11 - 2012.09.19

Solutions

1. Given a spring which stretches a specific length x from equilibrium when a force F is applied to one end, how much will the spring stretch if the force is tripled?

Since the distance from equilibrium is directly proportional to the force, the new distance from equilibrium will be $3x$.

2. If an object resting on a surface is being moved parallel to the surface, in what direction does the friction force point?

The friction force acts opposite the direction of motion.