1. There are several physical properties of water that I have said need to be memorized. Fill in the blanks below:

   a. The specific weight of water in English units is: _______________ (provide value and units)

   b. The density of water in English units is: _______________ (provide value and units)

   c. The density of water in metric units is: _______________ (provide value and units)

   d. The specific gravity of water in metric units is: _______________ (provide value and units)

2. A steel plate (weight 160 lbs, area 4 ft²) slides along a 15° slope covered in a 0.04 inch layer of motor oil ($\mu = 8.0 \times 10^{-3}$ lb·sec/ft²) at constant velocity. What is the speed of the plate?