Energy

Solve the following problems. Show all your work. Remember to include the correct units.

1. What is the kinetic energy of a 24-kg mass that is moving with a velocity of 2 m/sec?

2. A baseball that weighs 1.38 N is thrown so that it attains a velocity of 18 m/sec. What is the kinetic energy of the ball at that velocity?

3. A 10-kg mass is lifted to a height of 2 m.
   a. What is its weight?

   b. What is its potential energy at that height?

   c. How much work is done in lifting the mass? (Neglect friction.)

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