

## Homework 1 – Due 26 August 2011

### Math 1140 Financial Mathematics

**Collaboration Policy:** You are not allowed to collaborate with anyone on this homework. You are not allowed to use any resources such as textbook and internet.

**Pledge:** On my honor, I pledge that I have neither given nor received aid on this assignment.

**Name:**

**Signature:**

1. A small business has a profit of \$22,000. 15% of the profit is obtained by selling apples. How much money the small business makes by selling apples?
2. Solve the equation  $25x=125$
3. Define the distributivity property of real numbers.
4. Solve for  $x$  the equation  $xy + 2 = z$
5. Calculate using paper and pencil the following
  - a.  $2^3 =$
  - b.  $2^{-1/2} =$
  - c.  $\log_2 8 =$