Reading Questions for Section 1.3 and 1.4 Name _____
Due Date: _____

Bring this completed sheet with you to class on the due date to be handed in at the very beginning of the period.

1. On page 20, the text writes a linear function as $y = b + mx$. Why is it given THIS way? (Select one)

   a) Alphabetical order on the right side.
   b) b is the initial value and m tells how fast the line is climbing or falling.
   c) Just to screw you up.

2-6: Look at the table and graph for Section 1.4 Example 1 on page 27 for the velocity of the grapefruit as it is thrown in the air vs. time.

2. What is the value of the **average rate of change**? _____ ft/sec per second.

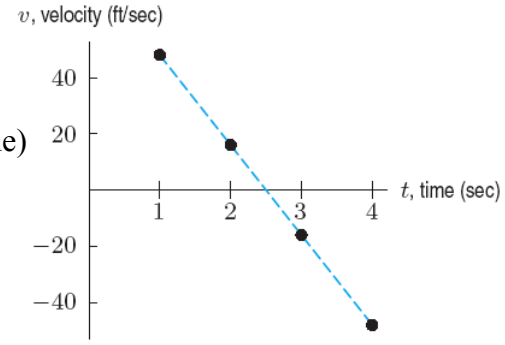
3. What is the value of the **vertical** intercept? _____

4. What is the value of the **horizontal** intercept? _____

t	$v(t)$
1	48
2	16
3	−16
4	−48

5. What is the meaning of the **vertical** intercept? (Select one)

   a) The initial height of the grapefruit when it was dropped.
   b) The price of grapefruit.
   c) Initial velocity of the grapefruit.
   d) How long it took to hit the ground.



6. What is the meaning of the **horizontal** intercept? (Select one)

   a) Velocity when it went splat.
   b) How long until the grapefruit stopped rising and started falling.
   c) Initial velocity of the grapefruit.
   d) How long it took to hit the ground.