

**Reading Questions for Section 1.3 and 1.4**

(6 pts)

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) 1. 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** for the velocity of the grapefruit as it is thrown in the air vs. time.

(1) 2. What is the value of the **average rate of change**? \_\_\_\_\_ ft/sec per second.

(1) 3. What is the value of the **vertical** intercept? \_\_\_\_\_

(1) 4. What is the value of the **horizontal** intercept? \_\_\_\_\_

(1) 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.

(1) 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.

$t$	$v(t)$
1	48
2	16
3	-16
4	-48

