

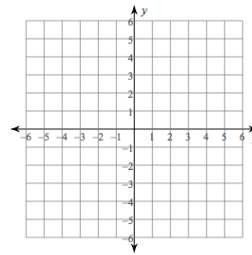
## Worksheet 4.0G: Forms of Functions | Chapter 4

A. Label the table and graph appropriately. Fill in the table, sketch the graph, and then answer the questions remaining about the function.

1. Mr. Farnsworth was walking away from the motions detector at 2 feet per second. You missed where he started but you know that he was at the 9 foot mark when the timer called out the 3<sup>rd</sup> second.

Table

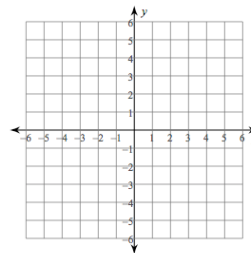

Graph



- Give the y-intercept as an ordered pair:
  - What is the slope?
  - Write the above relationship as an equation:
  - How do we see all aspects (slope and y-intercept) of the *function rule* in the
    - table?
    - graph?
    - equation?
2. Bambi was walking toward the motion detector at 3 feet per second. You missed where she started, but you know that she was at the 9 foot mark at the 2<sup>nd</sup> second.

Table


Graph



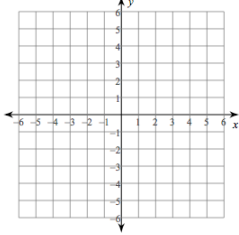
- Give the y-intercept as an ordered pair:
- What is the slope?
- Write the above relationship as an equation:
- How do we see all aspects (slope and y-intercept) of the *function rule* in the
  - table?
  - graph?
  - equation?

## Worksheet 4.0G: Forms of Functions | Chapter 4

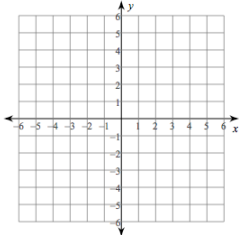
**B.** Given the following functions, create a graph.

1. The financial office sells book covers for \$2 each and notebooks for \$1. The function  $y = 5 - 2x$  represents the number of book covers  $x$  and notebooks  $y$  she can buy.

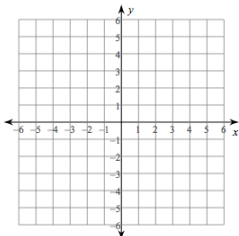
Graph the function  $y = 5 - 2x$  using the  $y$ -intercept and the slope.



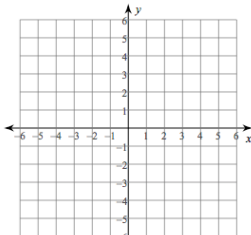
2. The farmer's market sells apples for \$2 per pound and oranges for \$1 per pound. Marjorie has \$10 to spend. The function  $y = 10 - 2x$  represents the number of apples  $x$  and oranges  $y$  Marjorie can purchase. Graph the function using the slope and  $y$ -intercept.



3. Graph the function  $y = x + 2$  below.



4. Graph the function  $y = x + 5$  below.



5. Graph the function  $y = -2x$  below.

