

Name \_\_\_\_\_ Date \_\_\_\_\_

**Skills Maintenance****Solving Equations With Variables****Activity 1**

Solve the equations by substituting the value for the variable.

1. Solve  $y = 2x + 1$  if  $x = 2$ . \_\_\_\_\_
2. Solve  $y = -x + 5$  if  $x = -3$ . \_\_\_\_\_
3. Solve  $y = x + 7$  if  $x = 10$ . \_\_\_\_\_
4. Solve  $y = \frac{1}{2}x + 10$  if  $x = 6$ . \_\_\_\_\_



Name \_\_\_\_\_ Date \_\_\_\_\_

## Apply Skills The Y-Intercept

### Activity 1

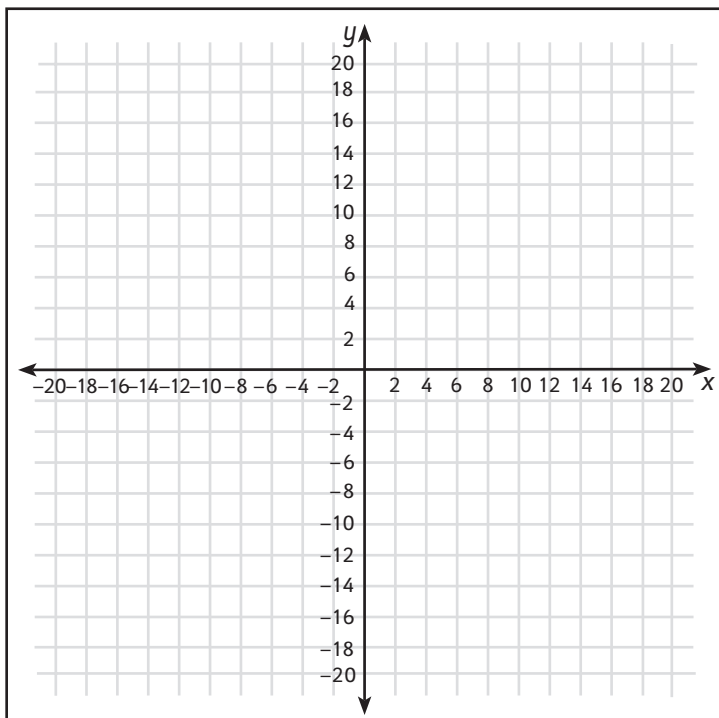
Find the functions for each problem. Each problem describes a situation and provides a table of data. Your job is to:

- Label the  $x$ - and  $y$ -axes based on the information in the problem.
- Draw the line on the graph.
- Write the function.

- Watch It Tonight! is a local video store that rents movies. They have a plan where you pay \$10 per month, and then \$2 per movie. This way you can watch as many movies as you want for the month for just \$2 each. The table shows the total cost to rent movies (up to 5).

Number of Movies	Cost for Videos	Monthly Charge	Total Cost
0	0	10	10
1	2	10	12
2	4	10	14
3	6	10	16
4	8	10	18
5	10	10	20

Write the function. \_\_\_\_\_

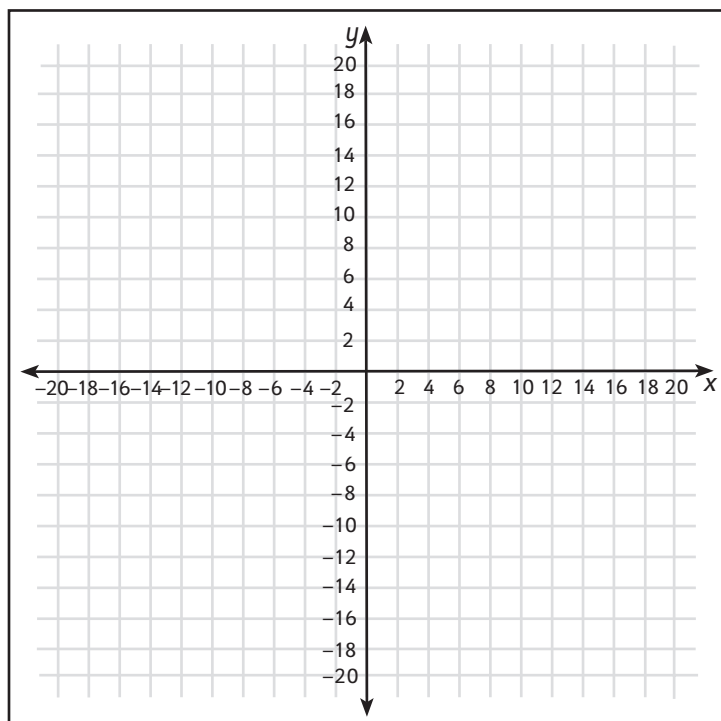


Name \_\_\_\_\_ Date \_\_\_\_\_

2. Watch It Tonight! decided that it was not getting enough business by charging \$10 per month, so it dropped its monthly charge to \$7 per month. Here is a new table that shows the cost of renting up to five videos per month.

Number of Movies	Cost for Videos	Monthly Charge	Total Cost
0	0	7	7
1	2	7	9
2	4	7	11
3	6	7	13
4	8	7	15
5	10	7	17

Write the function. \_\_\_\_\_



### Reinforce Understanding

Use the *mBook Study Guide* to review lesson concepts.