

|                        |             |               |             |
|------------------------|-------------|---------------|-------------|
| <b>READY, SET, GO!</b> | <b>Name</b> | <b>Period</b> | <b>Date</b> |
|------------------------|-------------|---------------|-------------|

**READY**

Topic: Common Ratios

**Find the common ratio for each geometric sequence.**

- |                       |                                 |
|-----------------------|---------------------------------|
| 1. 2, 4, 8, 16...     | 2. $\frac{1}{2}, 1, 2, 4, 8...$ |
| 3. -5, 10, -20, 40... | 4. 10, 5, 2.5, 1.25...          |

**SET**

Topic: Recursive and explicit equations

Fill in the blanks for each table; then write the recursive and explicit equation for each sequence.

**5. Table 1**

|     |   |   |   |   |   |
|-----|---|---|---|---|---|
| $x$ | 1 | 2 | 3 | 4 | 5 |
| $y$ | 5 | 7 | 9 |   |   |

Recursive: \_\_\_\_\_ Explicit: \_\_\_\_\_

**6. Table 2**

|     |     |
|-----|-----|
| $x$ | $y$ |
| 1   | -2  |
| 2   | -4  |
| 3   | -6  |
| 4   |     |
| 5   |     |

Recursive:

Explicit:

**7. Table 3**

|     |     |
|-----|-----|
| $x$ | $y$ |
| 1   | 3   |
| 2   | 9   |
| 3   | 27  |
| 4   |     |
| 5   |     |

Recursive:

Explicit:

**8. Table 4**

|     |     |
|-----|-----|
| $x$ | $y$ |
| 1   | 27  |
| 2   | 9   |
| 3   | 3   |
| 4   |     |
| 5   |     |

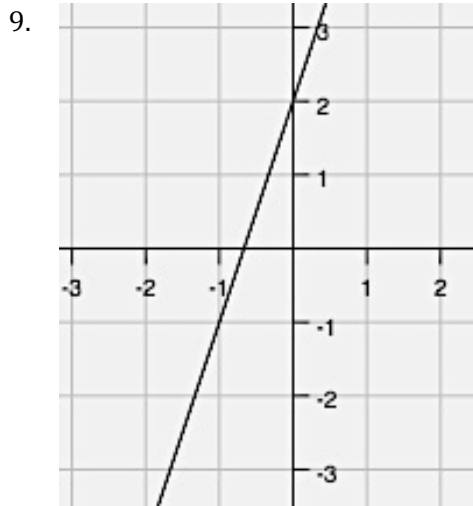
Recursive:

Explicit:

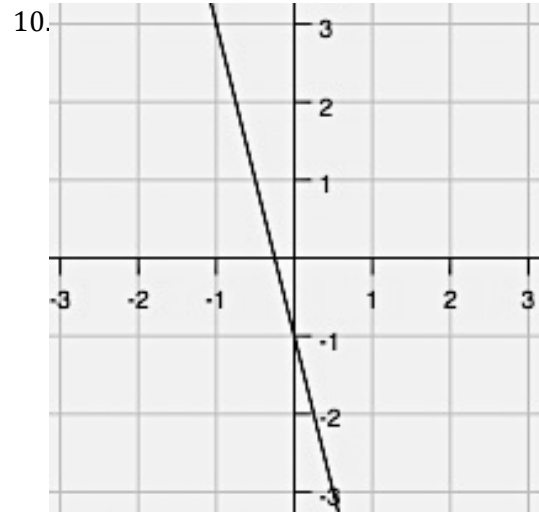
**GO**

Topic: Writing equations of lines given a graph.

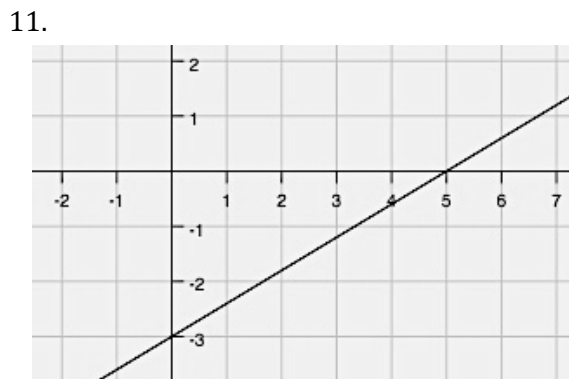
Write each equation of the line in  $y = mx + b$  form. Name the value of  $m$  and  $b$ .  
 Recall that  $m$  is the slope or rate of change and  $b$  is the  $y$ -intercept.



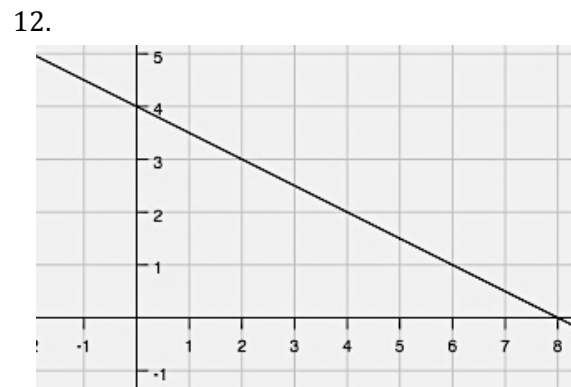
$m =$        $b =$       Equation:



$m =$        $b =$       Equation:



$m =$        $b =$       Equation:



$m =$        $b =$       Equation: