

READY, SET, GO!

Name \_\_\_\_\_

Date \_\_\_\_\_

## READY

Topic: Constant Ratios

Find the constant ratio for each geometric sequence.

1. 2, 4, 8, 16...

2.  $\frac{1}{2}, 1, 2, 4, 8, \dots$

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:

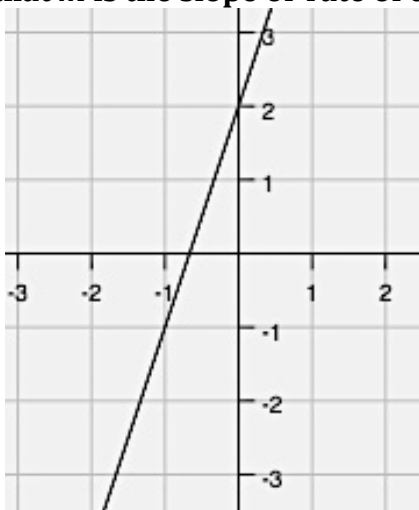
**GO**

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  $b$ .

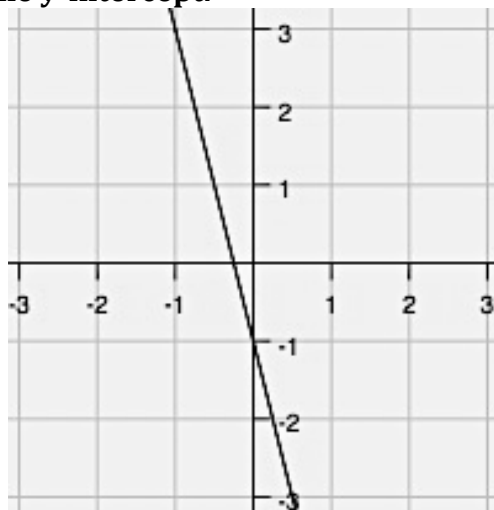
Recall that  $m$  is the slope or rate of change and  $b$  is the y-intercept.

9.



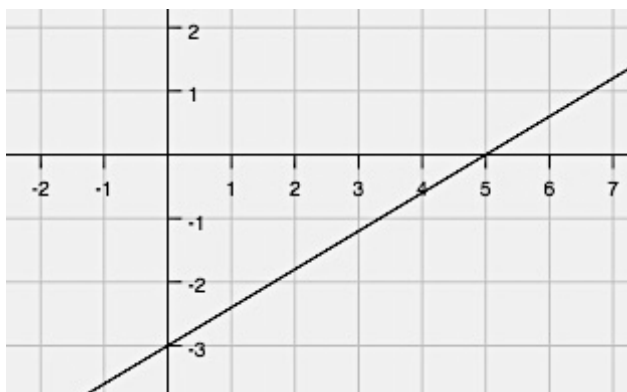
$m =$        $b =$       Equation:

10.



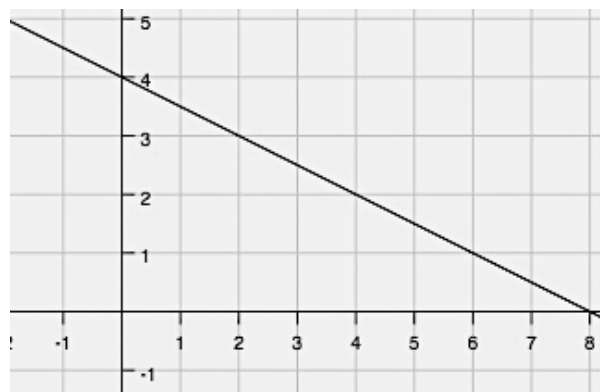
$m =$        $b =$       Equation:

11.



$m =$        $b =$       Equation:

12.



$m =$        $b =$       Equation: