

READY, SET, GO!

Name _____

Period _____

Date _____

READY**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**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	82
2	84
3	86
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:

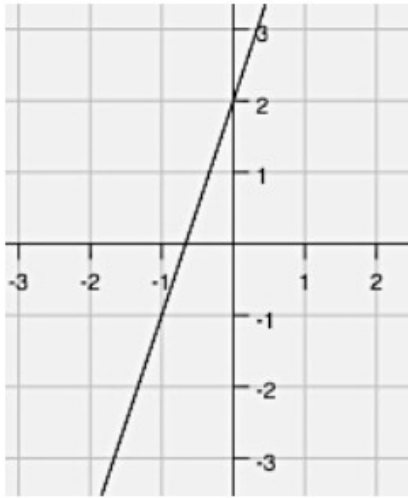
Explicit:

GO

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.

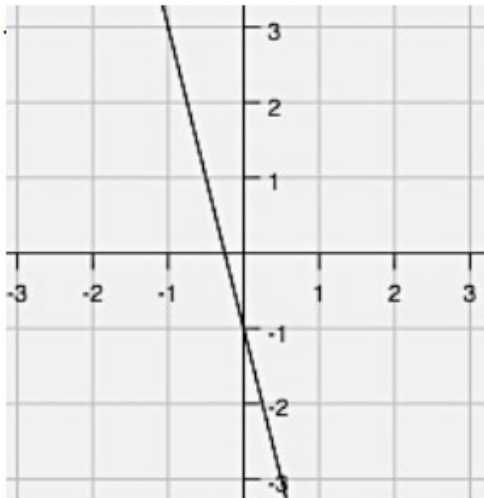


$m =$ _____

$b =$ _____

Equation:

10.

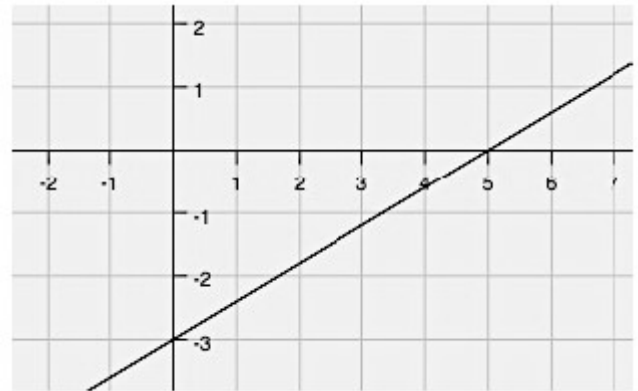


$m =$ _____

$b =$ _____

Equation:

11.

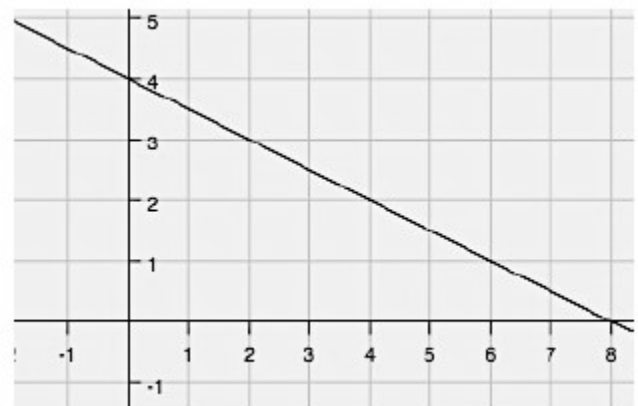


$m =$ _____

$b =$ _____

Equation:

12.



$m =$ _____

$b =$ _____

Equation: