

Name: \_\_\_\_\_

## Sequences | 3.7

## Ready, Set, Go!



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## 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...

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:

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Sequences | 3.7

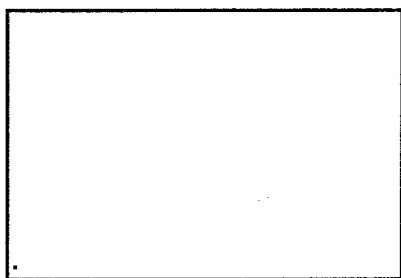
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**Go**

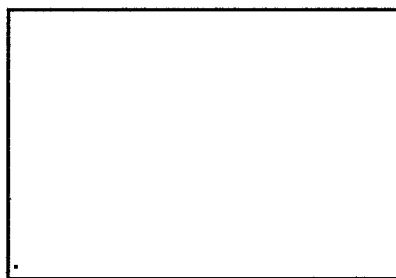
Topic: Graphing linear equations and labeling windows

**Graph the following linear equations. Label your window**

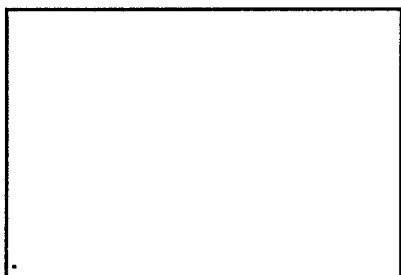
13.  $y = 4x + 7$



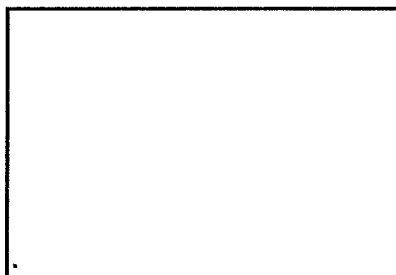
14.  $y = \frac{-3}{4}x + 5$



15.  $2x + 7y = 10$



16.  $x - 3y = 7$



Need Help? Check out these related videos:

Graphing equations

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalities/v/graphs-using-slope-intercept-form>

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