Name: Sequences | 3.7

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Ready, Set, Go!

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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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-inequalitie/v/graphs-using-slope-intercept-form