Ready, Set, Go!

Ready

Topic: Find the slope of the line that goes through each pair of points.   © 2012 www.flickr.com/photos/atl_cadets

1. (3,7) and (5, 10)

2. (-1, 4) and (3,3)

3. (0,0) and (-2, 5)

4. (-1, -5) and (-4, -5)

Set

Topic: Finding terms for a given sequence.

Find the next 3 terms in each sequence. Identify the constant difference. Write recursive equations for the following arithmetic sequences, and then write the explicit equation. Identify where you see the constant difference in both equations.

4.   Constant difference? _____

3	8	13	18	23			

Recursive equation: Explicit equation:

5.   Constant difference? _____

11	9	7	5	3			

Recursive equation: Explicit equation:

6.   Constant difference? _____

3	1.5	0	-1.5	-3			

Recursive equation: Explicit equation:

Go

Topic: Write the equations in slope intercept form.

7. $y = 12 + (x - 1)(-4)$

8. $\dfrac{2}{3}(6y + 9) = \dfrac{3}{5}(15x - 20)$

9. $\dfrac{5}{7}(21y + 7) = \dfrac{2}{9}(18x + 27)$

Need Help? Check out these related videos:

Finding slope   http://www.khanacademy.org/math/algebra/ck12-algebra-1/v/slope-and-rate-of-change

Writing the explicit equation   http://www.khanacademy.org/math/algebra/solving-linear-equations/v/equations-of-sequence-patterns

Writing equations in slope-intercept form   http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/v/converting-to-slope-intercept-form