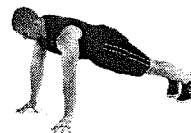


Name: _____

Sequences | 3.3

Ready, Set, Go!



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Ready

Topic: Slopes between two points

Find the slope of the line that goes through each set of points.

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 a recursive function and an explicit function for each sequence. (The first number is the 1st term, not the 0th). Circle the constant difference in both functions.

4. 3, 8, 13, 18, 23, _____, _____, _____, ... Constant Difference: _____

Recursive Function: _____ Explicit Function: _____

5. 11, 9, 7, 5, 3, _____, _____, _____, ... Constant Difference: _____

Recursive Function: _____ Explicit Function: _____

6. 3, 1.5, 0, -1.5, -3, _____, _____, _____, ... Constant Difference: _____

Recursive Function: _____ Explicit Function: _____

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Name: _____

Sequences | 3.3

Go

Topic: Slope-Intercept Form

Write the equations in slope-intercept form.

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

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

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

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-inequalities/v/converting-to-slope-intercept-form>

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