Ready, Set, Go!



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Ready

Topic: Writing equations of lines.

Write the equation of a line in slope-intercept form: y = mx + b, using the given information.

- 1. m = -7, b = 4
- 2. m = 3/8, b = -3
 - 3. m = 16, b = -1/5

Write the equation of the line in point-slope form: $y - y_1 = m(x - x_1)$, using the given information.

- 4. m = 9, (0.-7)
- 5. m = 2/3, (-6, 1) 6. m = -5, (4, 11)

- 7. (2,-5) (-3, 10)
- 8. (0, -9) (3, 0)
- 9. (-4,8)(3,1)

Topic: Graphing linear and exponential functions

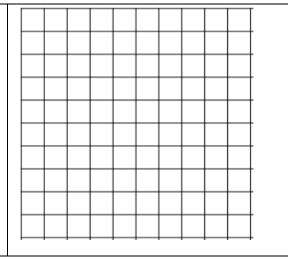
Set

Make a graph of the function based on the following information. Add your axes. Choose an appropriate scale and label your graph. Then write the equation of the function.

10. The beginning value of the function is 5 and								
its value is 3 units smaller at each stage.								
Equation:								
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11. The beginning value is 16 and its value is $\frac{1}{4}$		Т						•
smaller at each stage.		\top						
Equation:		\top						
4		\top						
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12. The beginning value is 1 and its value is 10								
times as big at each stage.								
Equation:		\top						•
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13. The beginning value is -8 and its value is 2 units larger at each stage.

Equation:



Go

Rewrite the equations in slope-intercept form.

14.
$$2y + 10 = 6x + 12$$

15.
$$5x + y = 7x + 4$$

15.
$$5x + y = 7x + 4$$
 16. $(y - 13) = \frac{1}{2}(8x - 14)$

17.
$$(y + 11) = -7(x - 2)$$

18.
$$(y-5) = 3(x+2)$$

$$(y + 11) = -7(x - 2)$$
 18. $(y - 5) = 3(x + 2)$ 19. $3(2x - y) = 9x + 12$

20.
$$y - 2 = 1/5 (10x - 25)$$

$$y-2=1/5$$
 (10x - 25) 21. $y+13=-1(x+3)$ 22. $y+1=\frac{3}{4}(x+3)$

22.
$$y + 1 = \frac{3}{4}(x + 3)$$

Need Help? Check out these related videos:

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

Equations in point-slope form: http://www.khanacademy.org/math/algebra/linear-equations- and-inequalitie/v/linear-equations-in-point-slope-form