Ready, Set, Go!

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. $(-4, 8) (3, 1)$
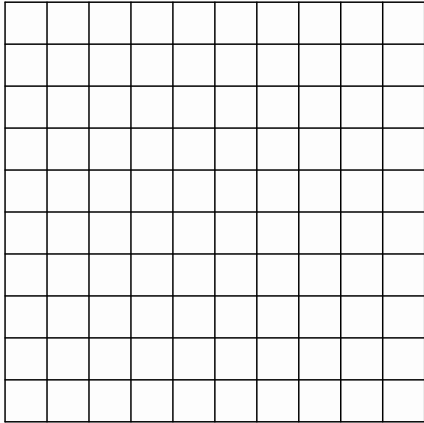
Set

Topic: Graphing linear and exponential functions

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.
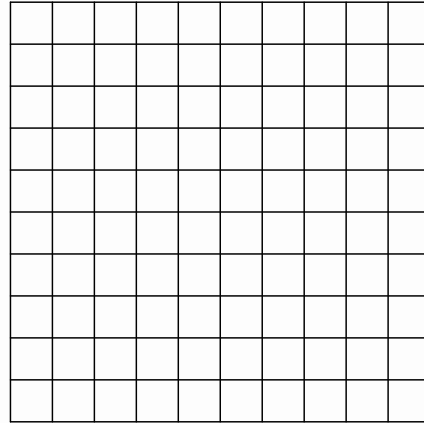
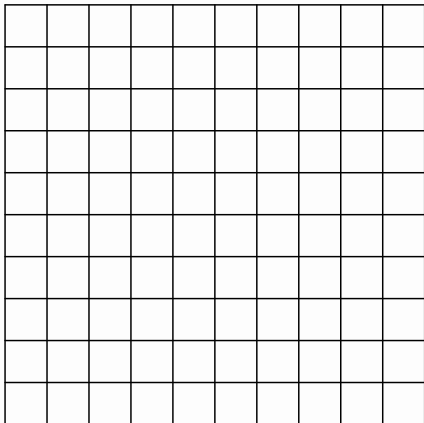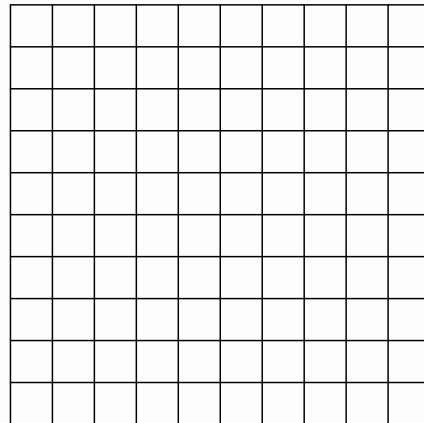|	
10. The beginning value of the function is 5 and its value is 3 units smaller at each stage. Equation:	11. The beginning value is 16 and its value is ¼ smaller at each stage. Equation:
12. The beginning value is 1 and its value is 10 times as big at each stage. Equation:	13. The beginning value is -8 and its value is 2 units larger at each stage. Equation:

Go

Topic: Slope-Intercept Form

Rewrite the equations in slope-intercept form.

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

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

16. $(y - 13) = ½ (8x - 14)$

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

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

19. $3(2x - y) = 9x + 12$

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

21. $y + 13 = -1(x + 3)$

22. $y + 1 = ¾(x + 3)$

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