

My math Quiz

Name: Sage
 Date: _____ Per: _____

Algebra I
 Unit 4: Linear Equations

Quiz 4-1: Slope & Graphing Linear Equations

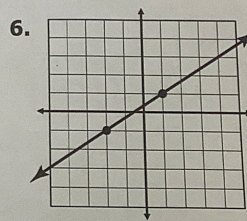
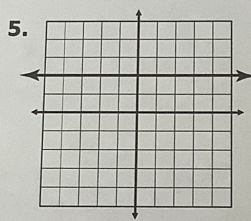
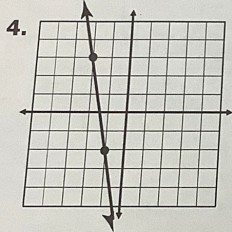
Identify the following formulas:

- Slope Formula
- Slope-Intercept Form
- Standard Form

??
 confusion

- $m = \frac{y_2 - y_1}{x_2 - x_1}$
- $y = mx + b$
- $Ax + By = C$

Find the slope of the line shown on each graph below.



- $\frac{-5}{1}$ or -5
- zero
- $\frac{2}{3}$

Find the slope of the line that passes through the two given points.

7. $(-2, -1)$ and $(-4, -7)$
 $\frac{-7 - (-1)}{-4 - (-2)} = \frac{-6}{-2} = 3$

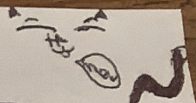
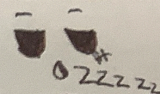
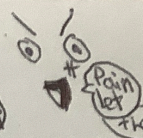
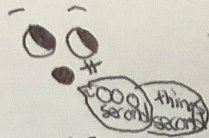
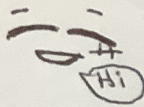
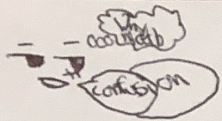
8. $(2, -3)$ and $(6, -13)$
 $\frac{-13 - (-3)}{6 - 2} = \frac{-10}{4}$

9. $(-3, 4)$ and $(-3, -8)$
 $\frac{-8 - 4}{-3 - (-3)} = \frac{-12}{0}$

10. $(-5, 7)$ and $(3, -1)$
 $\frac{-1 - 7}{3 - (-5)} = \frac{-8}{8}$

- 3
- $-\frac{5}{2}$
- undef.
- 1

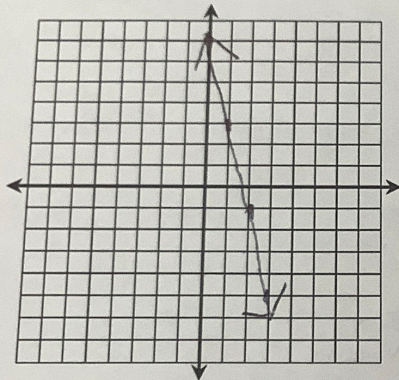
Teach was playing music



Convert each equation below to slope-intercept form, then graph. **SHOW ALL WORK!**

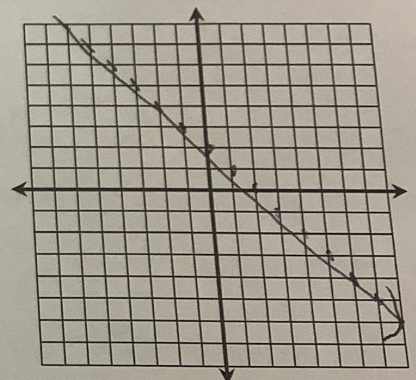
13. $8x - 2y = -14$

~~$y = 4x + 7$~~

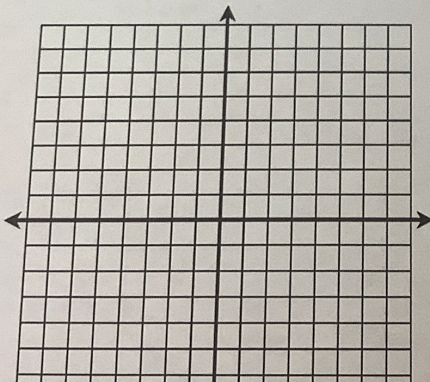


14. $x + y = 2$

$y = 2 - x$



15. $6x + 8y = -32$



16. $x - 2y = 0$

