Day 24: Slope and Graphing Slope-Intercept Form **#24**

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1. **Summarize in words** how you can **calculate slope** between give the following situation (see one of the worksheets from **Day 22** to help).

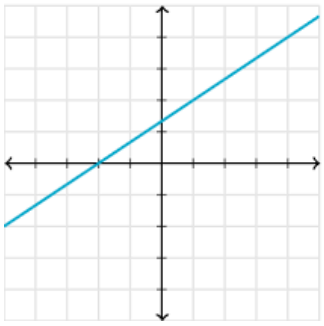
In your explanation, use some of the vocabulary we have learned such as **rate of change, change in ___, difference, rise/run, etc.**

Situation	Pattern	Graph	Table	Given just two points on a line

2. Find/calculate the slope:

a. 

Slope: _____

b. 

Slope: _____

c.

x	y
2	7
4	5
6	3
8	1

Slope: _____

d. Between these 2 points on a line: (5,8) and (-3,-6)

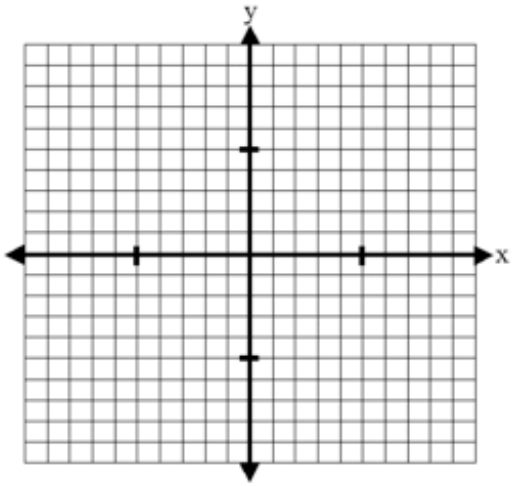
3. Which situation above do you struggle with when calculating slope? What do you need to remind yourself about how to calculate slope in that situation?

Graphing Practice: Identify the slope and y-intercept of each line below. Then, graph each line. (SLOPE IS A RATIONAL NUMBER!)

4. $y = \frac{1}{4}x + 4$

slope (m) = _____

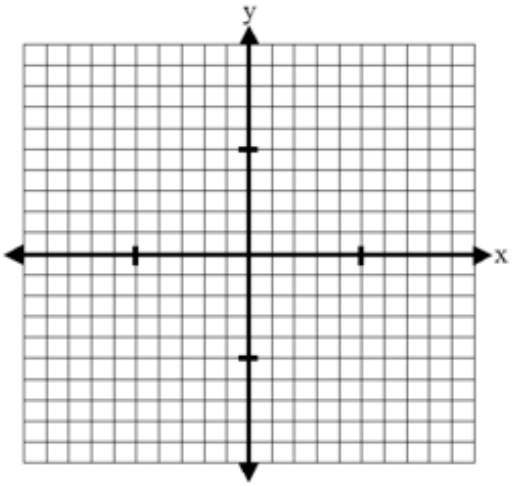
y-int (b) = _____



5. $y = -\frac{4}{5}x + 3$

slope (m) = _____

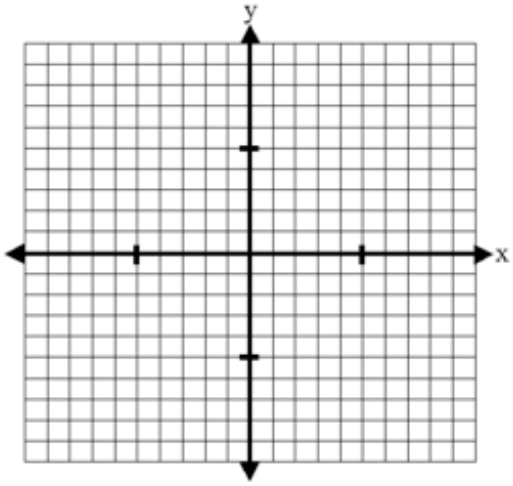
y-int (b) = _____

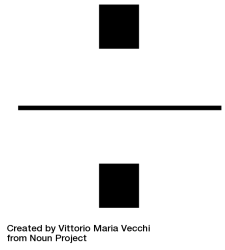


6. $y = \frac{2}{5}x - 2$

slope (m) = _____

y-int (b) = _____





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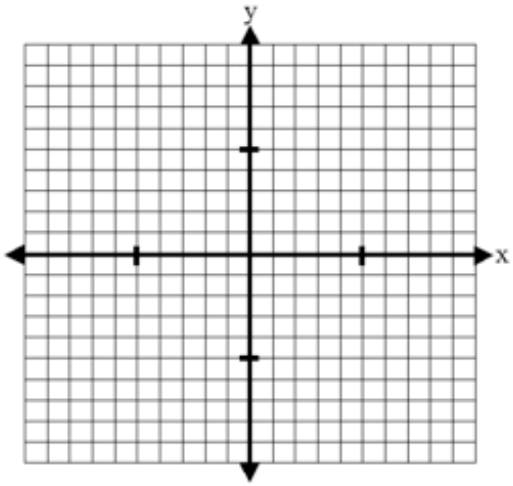
7. $y = 2 - 2x$

slope (m) = _____

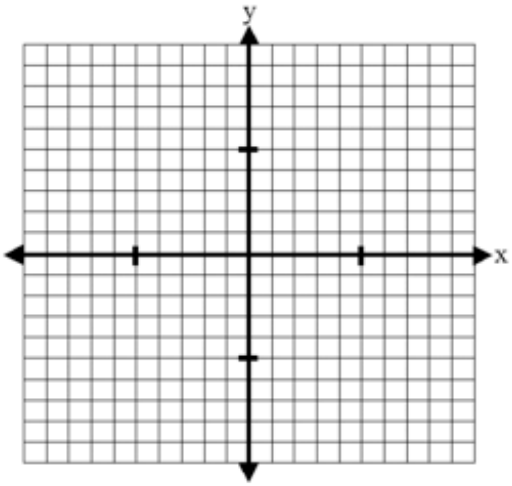
y-int (b) = _____



8. $y = -5x - 4$

slope (m) = _____

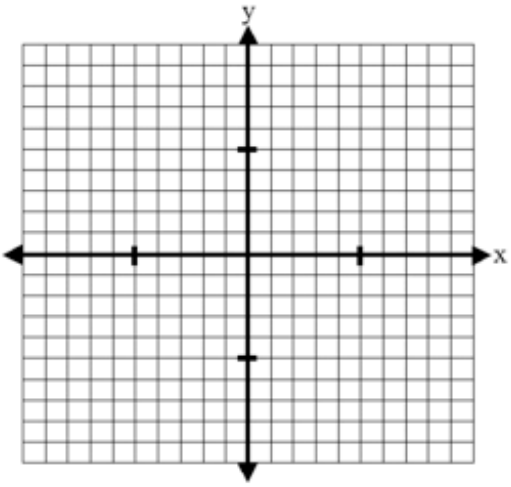
y-int (b) = _____



9. $y = 3 + x$

slope (m) = _____

y-int (b) = _____



10. You are snapchatting with a friend who's struggling with graphing an equation in slope-intercept form ($y = mx + b$), for example $y = -4x + 5$. What steps and hints would you tell them?