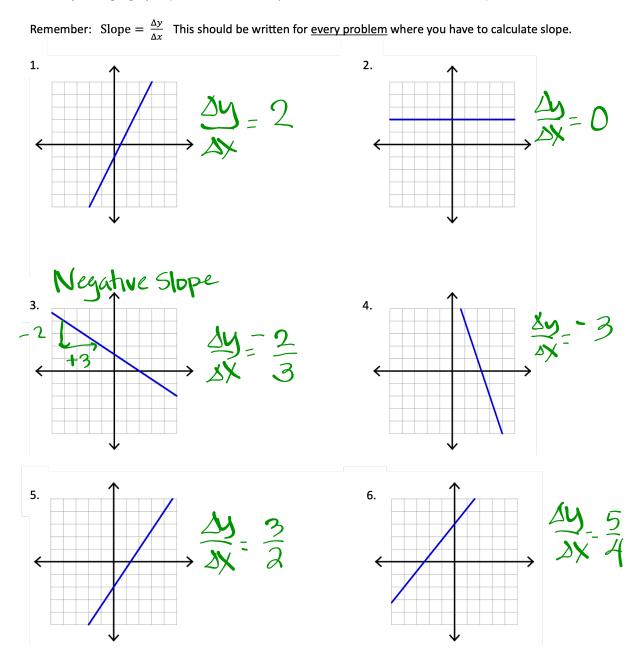
## Warm Up

9/19

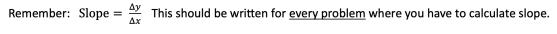
Solve for x: 7 + 3(2 - 4x) = 4(7 - x) + 1 Distribute 7+6-12x=28-4x+1 CLT 13-12x= 29-4x -13 -13 -12x = 16 - 4x+4× +4×  $-\frac{8}{8} - \frac{16}{8}$ X= -2

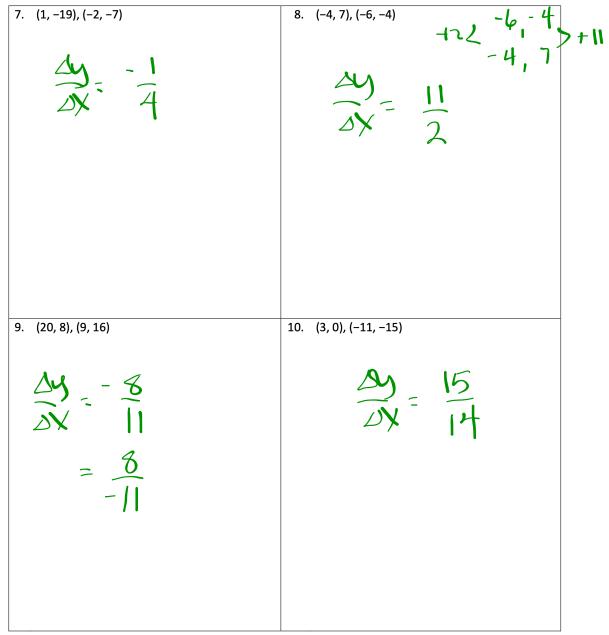


Find slope using a graph. (Make sure to select points with whole number coordinates.)



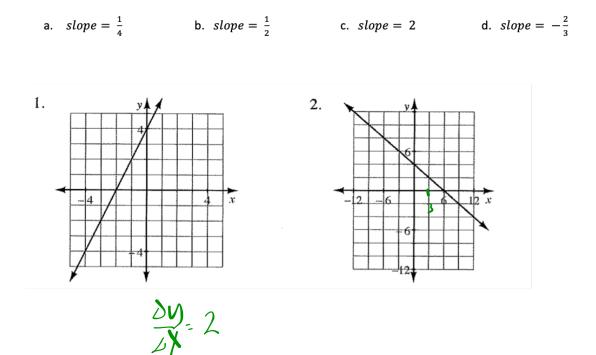
Find the slope between two points. Show your thinking!

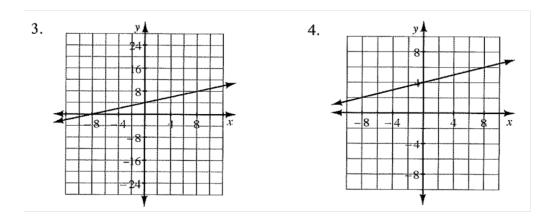




#### Match-A-Slope

Match the following graphs with their slopes. *Pay special attention to the scaling on each set of axes*. Show your calculations to find each slope.





Quiz Topics

SWBAT:

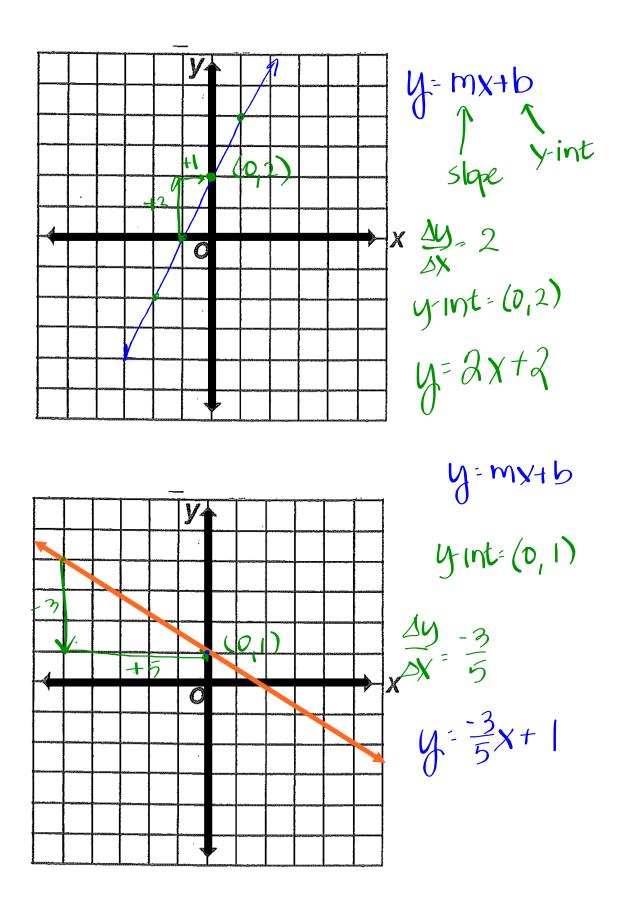
• Describe patterns of change in tables and graphs using proper mathematical language.

Increase / decrease Constant change linear / nonlinear DM = 5lope DX X-values Y-values

Determine when data points should be connected on a graph.

• Solve for "x" *algebraically,* using proper format.

• Calculate slope given a graph or two points.

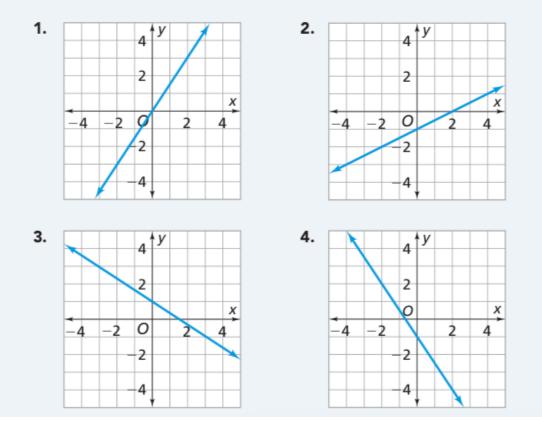


### Problem 2.2

Use the data given in each question to find the equation of the linear function relating *y* and *x*.



A For the functions with the graphs below, find the slope and *y*-intercept. Then write the equations for the lines in the form y = mx + b.



# Remember: y-int is the value of y when X=0

(B) 1. Find equations for the linear functions that give these tables. Write them in the form y = mx + b.

•	x	-2	-1	0	1	2
	у	-1	1	3	5	7

a

b.	x	-6	-2	2	6	10
	у	-4	-2	0	2	4

- **2.** For each table, find the unit rate of change of *y* compared to *x*.
- **3.** Does the line represented by this table have a slope that is greater than or less than the equations you found in part 1(a) and part 1(b)?

x	-1	0	1	2	3
у	4	1	-2	-5	-8

# Homework

Finish classwork