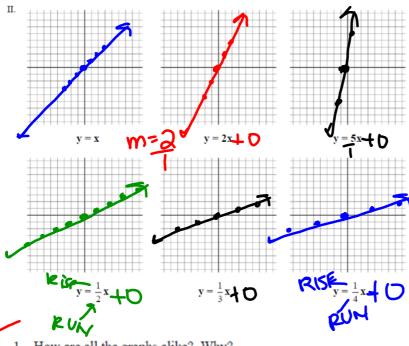


The Picture Tells the Linear Story



How are all the graphs alike? Why?

2. Describe the differences in the graphs.

different Steepness

3. Which line appears the steepest?

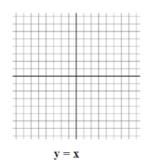
(ine with biggest dope

4. What makes the difference?

Small stope = (ass steep) (flatter)

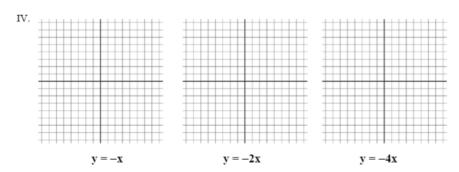
large stope = more steep

III.



1. How are the lines alike?

2. How are the lines different?



- 1. Name 2 ways the lines are alike.
- 2. How are the lines different?
- 3. Which line appears the steepest?
- 4. What makes the difference?

Practice/Closure Day 4

- V. Use the information from the previous graphs to answer the following questions.
 - 1. Where does each of the following cross the y-axis?

a.
$$y = 2x + 7$$

b.
$$y = -x + 11$$

e.
$$y = \frac{1}{2}x - 8$$

2. Which of the lines below is the steepest? Explain how you know.

a.
$$y = 2x + 7$$

b.
$$y = -x + 11$$

e.
$$y = \frac{1}{2}x - 8$$

3. Where does each of the following cross the y-axis?

a.
$$y = x + 8$$

b.
$$y = 3x - 4$$

e.
$$y = \frac{1}{2}x + 3$$

b.
$$y = 3x - 4$$

e.
$$y = \frac{1}{2}x + 3$$

5. Where does each of the following cross the y-axis?

a.
$$y = -x + 8$$

b.
$$y = -2x + 5$$

c.
$$y = -\frac{1}{3}x$$

6. Which of the lines below is the steepest? Explain how you know.

a.
$$y = -x + 8$$

b.
$$y = -2x + 5$$

e.
$$y = -\frac{1}{3}x$$

- 7. If a linear equation can be written in the form y = mx + b, where **m** and **b** represent any real values, explain the effect of **m** on the graph of the equation.
- 8. Explain the effect of b on the graph.