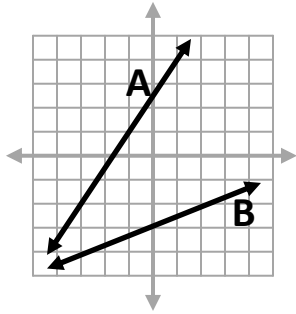
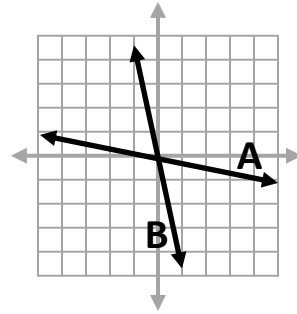


8.3 Slope – Day Three

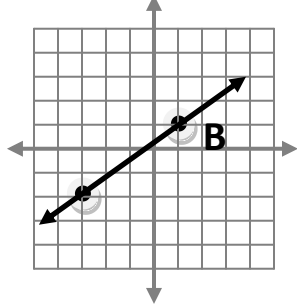
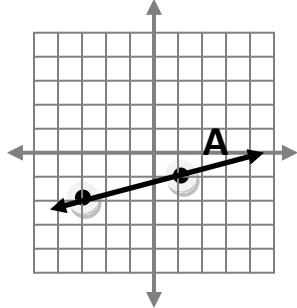
1) Which line is the steepest? _____



2) Which line is the steepest? _____



3) Find the slope of both line A and B. Then identify which line is steepest.

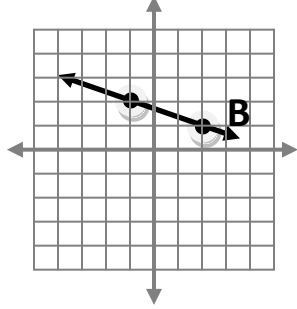
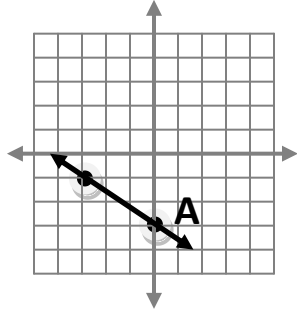


Slope of line A: _____

Slope of line B: _____

Steepest: _____

4) Find the slope of both line A and B. Then identify which line is steepest.



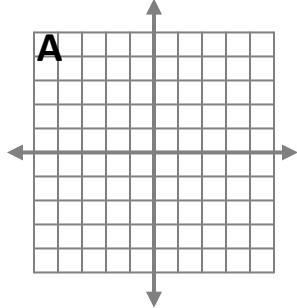
Slope of line A: _____

Slope of line B: _____

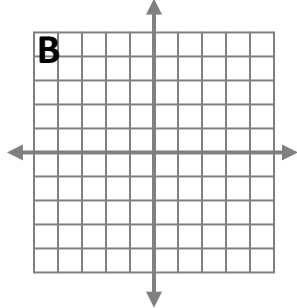
Steepest: _____

5) Plot the ordered pairs. Draw a line. Find the slope of both line A and B. Then identify which line is steepest.

(-2, 2) and (3, 4)



(-1, -2) and (4, 2)

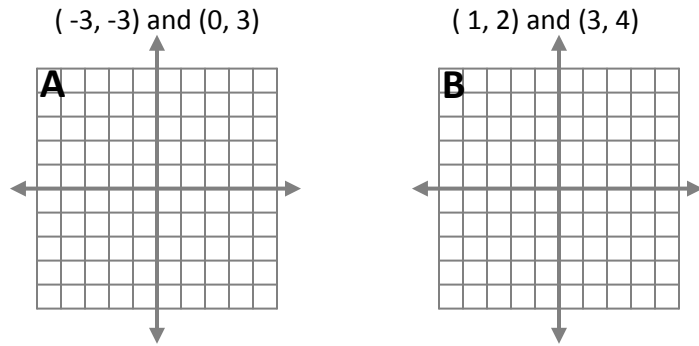


Slope of line A: _____

Slope of line B: _____

Steepest: _____

6) Plot the ordered pairs. Draw a line. Find the slope of both line A and B. Then identify which line is steepest.



Slope of line A: _____

Slope of line B: _____

Steepest: _____

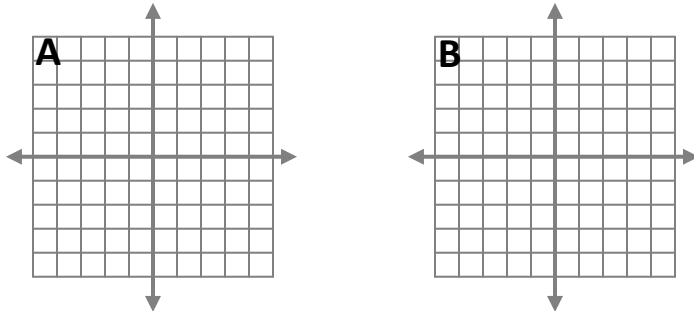
7) Look back at questions 3 – 6. What do you notice about the slope of the steepest line? Write a general rule to show your understanding. (For example, "The slope of the steepest line will always ...")

8) Predict which slope will be the steepest:

Line A has a slope of 3. Line B has a slope of $\frac{1}{2}$.

Prediction: _____

9) Prove your answer to question 8 by drawing line A and line B below. Use any starting point you wish.



Without graphing the lines, write the following slopes in order from least to greatest steepness.

10) Slope = 2, Slope = $\frac{1}{2}$, Slope = 1

In order: _____

11) Slope = -5, Slope = $-\frac{3}{2}$, Slope = $-\frac{1}{3}$

In order: _____

12) Slope = $\frac{1}{5}$, Slope = $\frac{7}{8}$, Slope = $\frac{3}{4}$

In order: _____

13) Slope = $-\frac{2}{5}$, Slope = $-\frac{4}{5}$, Slope = $-\frac{1}{5}$

In order: _____