Linear Relationships – Day 4   Name _____
Notes   Date _____ Period _____

Use the calculator to graph each set of equations and copy them on the graph paper. Be sure to label the lines on the graph.

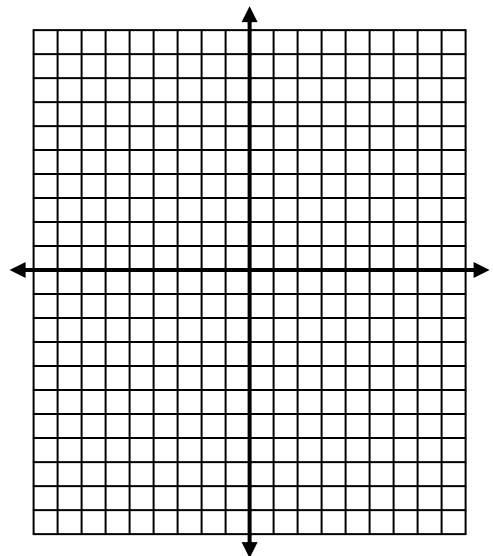**Set A.**

$y = 2x$ $y = 2x - 1$ $y = 2x + 3$

1. Describe what you notice about the lines?

_____

2. What do these lines have in common?

_____

3. How are these lines different?

_____

4. Determine the rule for these lines?

_____

Set B.

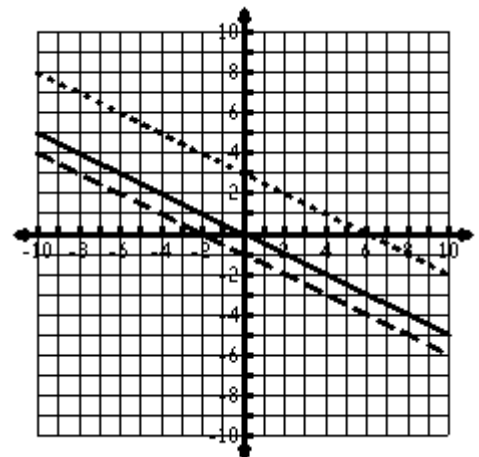$y = -\dfrac{1}{2}x$ $y = -\dfrac{1}{2}x - 1$ $y = -\dfrac{1}{2}x + 3$

5. Describe what you notice about the lines?

_____

6. What do these lines have in common?

_____

7. How are these lines different?

_____

8. Determine the rule for these lines?

_____

Name _____

Date _____ Period _____

Set C.

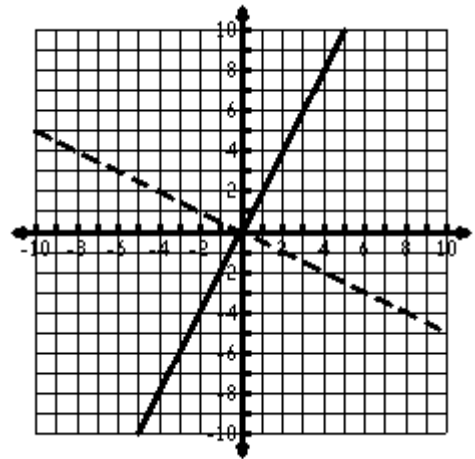$f(x) = 2x$ $\qquad$ $f(x) = -\dfrac{1}{2}x$

9. Describe what these lines have in common?

_____

10. How are these lines different?
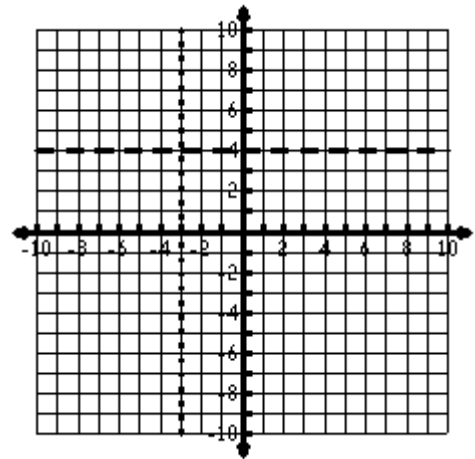
_____

11. Determine the rule for these lines?

_____

Set D.

$x = -3$ $\qquad$ $y = 4$

12. Describe what these lines have in common?

_____

13. How are these lines different?

_____

14. Determine the rule for these lines?

_____

Set E.

$f(x) = x$ $\qquad$ $f(x) = -x$

15. Describe what these lines have in common?

_____

16. How are these lines different?

_____

17. Determine the rule for these lines?

_____