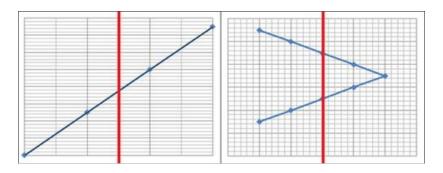
Algebra 2 - Chapter 2 Recovery

- 1. Find the domain of the relation $\{(3, -2), (3, 4), (2, 3)\}$. Then determine whether the relation is a function.
- 2. Find f(-2) if f(x) = 2x 3.
- 3. Write three different examples of a linear function.
- 4. Write 4y = 2x 6 in standard form.
- 5. What is the slope of a line that passes through the points (4,-5) and (-2, 6)?
- 6. What is the slope of a line that is parallel to $y = -\frac{3}{2}x + 4$?
- 7. What is the slope of the line with equation 4x + 5y = 20?
- 8. What is the slope of the line y = -2x + 5?
- 9. What is the y-intercept of the line 4x+7y=28

- 10. What is the transformation of the graph f(x) = |x 2| 6?
- 11. What is the name of the function y=5?
- 12. Identify the vertex of y = 3|x + 5|.
- 13. What is the slope of the inequality y > -3x + 4?
- 14. The graph of the linear inequality $y \ge 7x 5$ is the shaded region ______ the graph.
- 15. What is the vertex of the graph f(x) = 5|x + 5| 2?

On problems 16 and 17, use the pictures to answer each question.

16. 17.



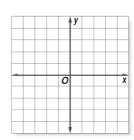
Is the graph above a function?

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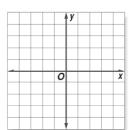
Graph each equation or inequality accurately.

18.
$$y = |x| - 2$$

19.
$$y \ge 2x + 3$$



$$20.5x - 3y = 15$$



21. Write an equation in slope intercept form parallel to the line through y = 2x-4, but going through the point (2, -1).

22. Write an equation in point-slope form of a line that contains the points (-1, 5) and (-2, 0).

23. Write an equation in slope-intercept form of slope of $\frac{3}{2}$ and contains the point (2, -3). (Hint write in point-slope FIRST)

24. Find the slope of a line that contains the points (-2, 3) and (4, 2).

25. Write an equation in point slope-form of a line perpendicular to the line with equation y = -2x + 5 and contains the point (-3, 2).