

1st Semester Review Worksheet B

Name: _____

Period: _____

Directions: Evaluate the function below for the given domain. **Show all work.**

$$f(x) = -2x + 6$$

$$g(x) = -\frac{3}{2}x + 7$$

$$h(x) = x^2 + 6x - 13$$

1. $f(6) =$

2. $g(8) =$

3. $h(5) =$

4. $g(-9) =$

5. $h(-3) =$

6. $f\left(\frac{7}{5}\right) =$

7. $h(-5.3) =$

8. $f(-8.4) =$

9. $g(9.5) =$

Directions: Find the slope of the line that passes through each pair of points. **Show all work.**

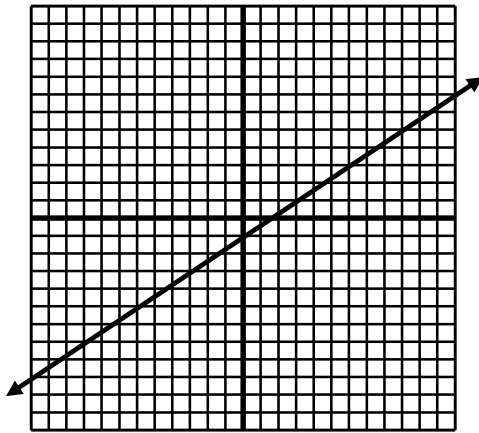
10. (15, 12) & (-5, -16)

11. (-3, 18) & (-19, 16)

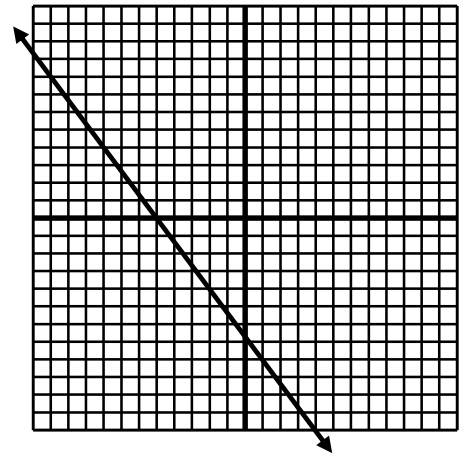
12. (-18, 15) & (-3, 5)

Directions: Find the slope of the line in each graph.

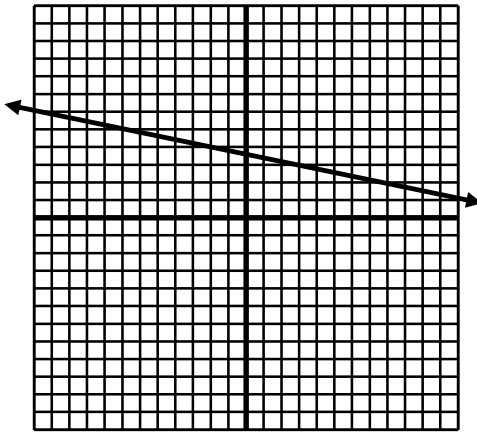
13.



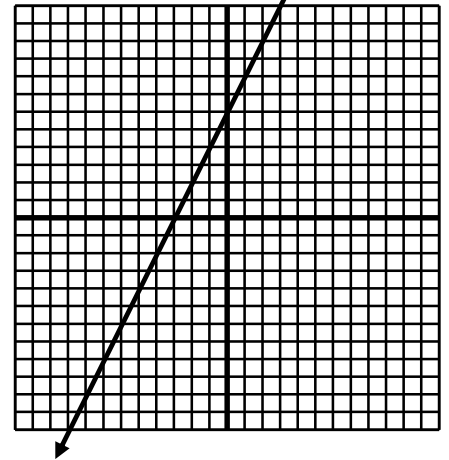
14.



15.



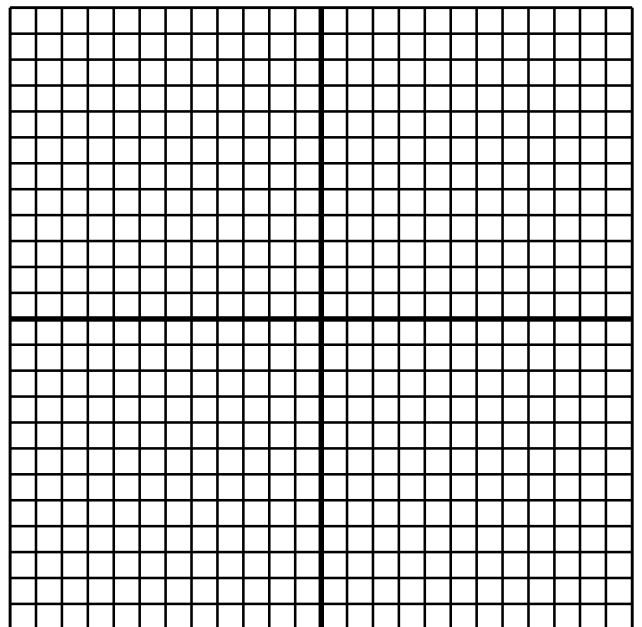
16.



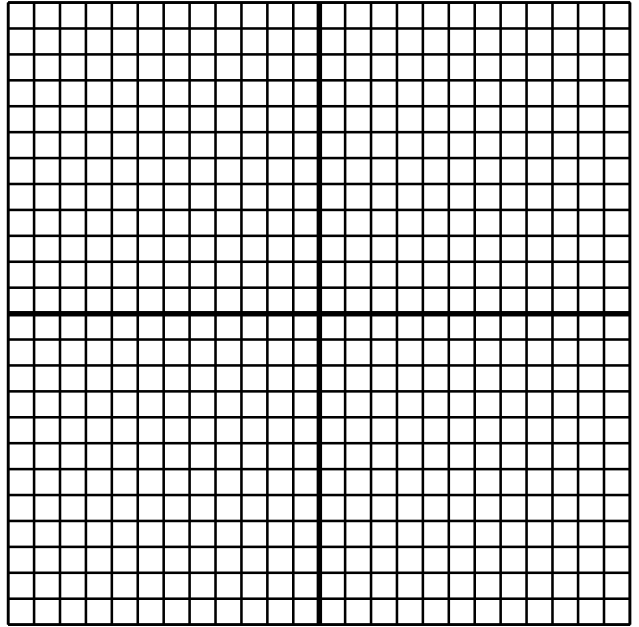
Directions: Graph each pair of linear functions on the graph to the right.

17. $y = -\frac{3}{5}x - 6$

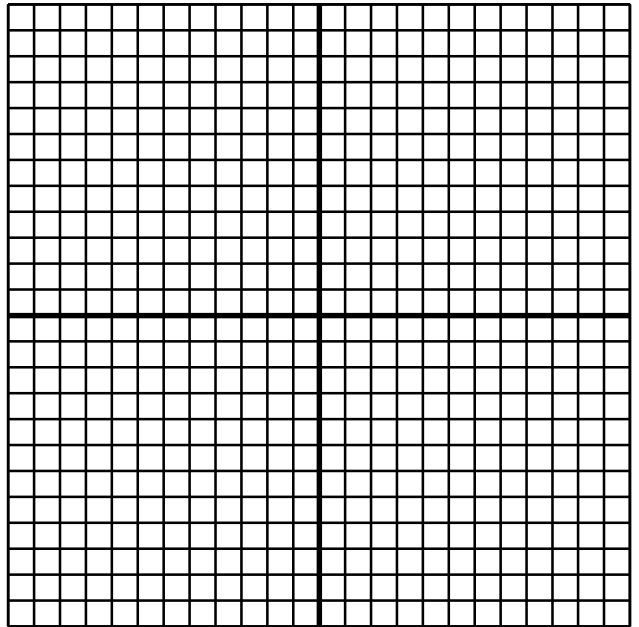
18. $y = 4x - 6$



19. $y + 6 = \frac{3}{2}(x - 8)$



20. $y - 4 = -\frac{1}{3}(x + 9)$



21. $5x - 3y = -18$

22. $x + 4y = -9$

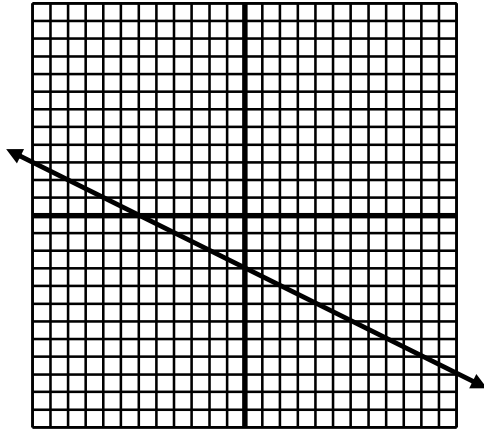
Directions: Find the equation in **slope-intercept form** of a line with the given slope and goes through the given point. **Show all work.**

23. $m = -\frac{1}{2}$ & (4, -4)

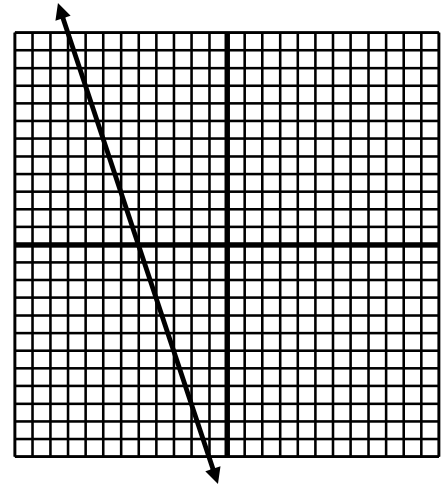
24. $m = -\frac{1}{4}$ & (-1, -5)

Directions: Find the equation in **slope-intercept form** from the graph of each line. **Show all work.**

25.



26.



Directions: Graph each linear inequality.

27. $y > -\frac{3}{4}x + 7$

28. $3x - 2y \leq 10$

