

Name _____

Topic 2 Review

Find the slope of the line containing the given points.

1. (5, 2) and (6, 8)

2. (-6, 1) and (6, 1)

4. (2, -4) and (2, 10)

4. (2, 5) and (6, 3)

5. (1, -2) and (3, 4)

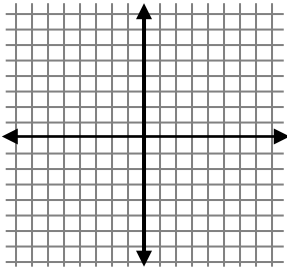
6. (3, -4) and (-3, -3)

7. Is the point (2, 3) on the line $y = 4x - 5$? (Show your work.)

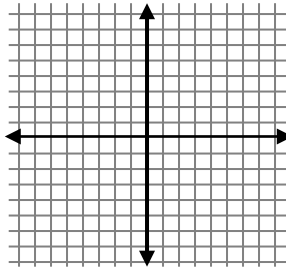
8. Is the point (-1, 6) on the line $y = 3x - 3$? (Show your work.)

Graph each line.

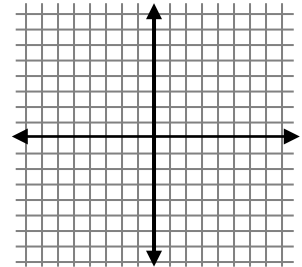
9. $y = \frac{-1}{2}x + 2$



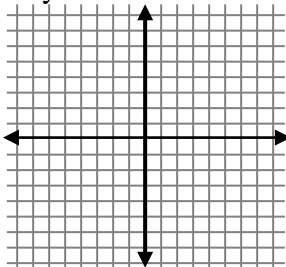
10. $y = \frac{2}{3}x - 1$



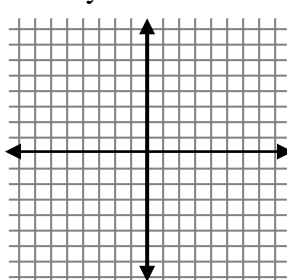
11. $y = x - 5$



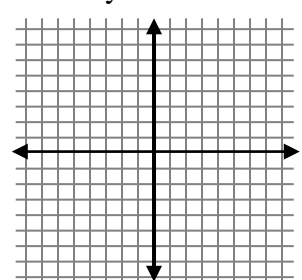
12. $3y = 2x - 12$



13. $2x + 3y = 12$



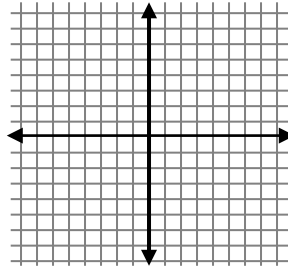
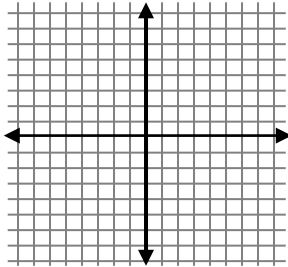
14. $2x - 7y = 21$



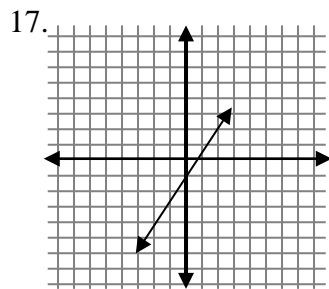
An equation for a line is given. Find the x- and y- intercepts. Graph.

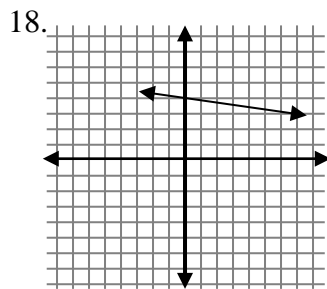
15. $x - 4y = 8$

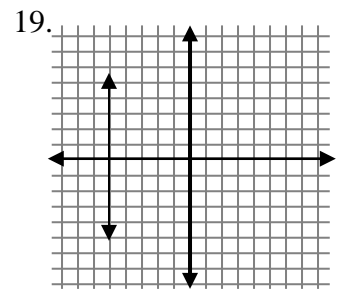
16. $2x + 3y = 12$



Give the equation of each line.







20. Write the equation for the line containing the point (2, -5) that has slope of 3.

21. Write the equation for the line containing the point (6, -1) that has slope of $-\frac{1}{2}$.

22. Are the two lines $3x - y = -7$ and $x + 3y = 6$ parallel?

23. Find the equation of the line that passes through the point (-2, -7) that has a slope of 3.

24. Find the equation of the line that passes through the point (1, 0) that has a slope of $\frac{-2}{3}$

25. Find the equation of the line that passes through the point (6, 2) that has a slope of $\frac{2}{3}$

26. Find the equation of the line that passes through the points (2, 6) and (-4, 6)

27. Find the equation of the line that passes through the points (2, 7) and (-4, -5).

28. Find the equation of the line that passes through the points (-4, -5) and (6, 0).

Cumulative Review:

Solve each for x.

29. $2(3x + 4) - 3 = (-13)$

30. $3x - 4 = -6x + 14$

31. $ax + 4 = 10$

32. $\frac{3}{x+1} = \frac{7}{12}$

33. $\frac{2}{5}x + 3 = 7$

34. $4x + 5 = -12$

Simplify each.

35. $3(2x - 5) - 2(5x - 4)$

36. $2 + 2(3 - 2^2 \cdot 5) + 18$

37. $(-4)(-5)(-3)$

38. $2x^2 + 4x - 5x^2 - 7 + 4x - 19$

39. $3x - 4y + 2y + 7y + 16x$