Chapter 3.3
Slope

Find the slope of a line that passes through the following points.

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

2. (0, -6)   (-2, -7)

3. (4, 3)   (4, -8)

4. $\left(\frac{1}{2},\frac{2}{3}\right)$ $\left(\frac{1}{4},\frac{1}{6}\right)$

5. (-2, 7)   (0, 7)

Find the slope, x-intercept, y-intercept and graph the following linear equations.

6. $x + y = 8$ slope _____ y-intercept _____ x-intercept _____

7. $y = -2$ slope _____ y-intercept _____ x-intercept _____

8. $y = -2x + 3$ slope _____ y-intercept _____ x-intercept _____

9. $x + 4y = 6$ slope _____ y-intercept _____ x-intercept _____

10. $4x - 3y = 12$ slope _____ y-intercept _____ x-intercept _____

11. $2x + 5y = 10$ slope _____ y-intercept _____ x-intercept _____

12. $x = 3$ slope _____ y-intercept _____ x-intercept _____

13. $5x + \frac{3}{4}y = 2$ slope _____ y-intercept _____ x-intercept _____

14. $2x - 3y = 6$ slope _____ y-intercept _____ x-intercept _____

15. $5y + 2x = 10$ slope _____ y-intercept _____ x-intercept _____

16. $2x - y = 2$ slope _____ y-intercept _____ x-intercept _____

17. $y + 3x = 9$ slope _____ y-intercept _____ x-intercept _____

18. $y - 2x = 1$ slope _____ y-intercept _____ x-intercept _____

19. $2x - y = \frac{3}{4}$ slope _____ y-intercept _____ x-intercept _____

20. $y + 3 = 9$ slope _____ y-intercept _____ x-intercept _____

Name_____

Write the equation of each line from the given information. Then graph each line.

1. The line with slope = 2 that contains the point with coordinates $(0, 2)$.

2. The line with slope ¼ that contains the point whose coordinates are $(-2, -3)$.

3. The equation of the line that passes through the origin and has slope $-½$.

4. The equation of the line that passes through the points $(3, -1)$ and $(-1, 3)$.

5. The equation of the line that passes through the point $(-3, 1)$ is parallel to the line $x - 3y = 8$.

6. The equation of a line that is perpendicular to the x-axis and passes through the point $(2, -1)$.