

**Practice****5.6 Parallel and Perpendicular Lines**

Write the slope of a line that is parallel to each line.

1. $y = 2x - 5$ _____ 2. $y = -x + 2$ _____

3. $3x + y = 10$ _____ 4. $5x - y = 11$ _____

5. $x + 2y = 6$ _____ 6. $2x - 3y = 9$ _____

7. $4x + y = 3$ _____ 8. $x + 2y = 14$ _____

Write the slope of a line that is perpendicular to each line.

9. $y = 4x + 6$ _____ 10. $y = -\frac{1}{5}x - 3$ _____

11. $x + y = 7$ _____ 12. $6x - y = 14$ _____

13. $x + 7y = -21$ _____ 14. $5x - 4y = 12$ _____

15. $y = \frac{1}{3}x + 2$ _____ 16. $2y = -2x - 8$ _____

Write an equation in slope-intercept form for a line containing the point $(6, -2)$ and

17. parallel to the line $2x + y = 5$. _____

18. perpendicular to the line $y = -3x + 4$. _____

Write an equation in slope-intercept form for a line containing the point $(-6, 5)$ and

19. parallel to the line $x + 2y = 6$. _____

20. perpendicular to the line $3x - 4y = -8$. _____

Write an equation for a line containing the point $(-3, 2)$ and

21. parallel to the line $y = -4$. _____

22. perpendicular to the line $y = -4$. _____

Write an equation for the line that contains the point $(-1, 2)$ and is

23. parallel to the line $y = x - 6$. _____

24. perpendicular to the line $y = -x$. _____