

- 3. A line that is parallel to y = 12 has slope m = _____
- 4. Are the lines 2y x = 6 and 6x 3y 33 = 0 parallel, perpendicular, or neither?

Choose the best answer.

- 5. Which equation represents a line that is perpendicular to the line shown below?
- A. $y = \frac{2}{3}x + 5$ B. $y = \frac{3}{2}x - 4$





- 6. Which equation represents a line that is parallel to the line shown below?
- A. $y = \frac{3}{5}x + 1$ B. $y = -\frac{3}{5}x + 1$ C. $y = \frac{5}{3}x - 1$ D. $y = -\frac{5}{3}x - 1$



- 7. Which describes the lines $y = \frac{7}{8}x + 12$ and $y = -\frac{8}{7}x + 7$?
- A. Parallel
- B. Perpendicular
- C. Neither

- 8. Which describes the lines x 2y = -6and 4y + 4 = 2x?
- A. Parallel
- B. Perpendicular
- C. Neither
 - 9. Which describes the lines shown below?
- A. Parallel
- B. Perpendicular
- C. Neither



- 10. Which describes the lines shown below?
- A. Parallel
- B. Perpendicular
- C. Neither



Write the equation of the line that is described. Give your answer in slope intercept form.

11. A line that is parallel to the one shown below that passes through the point (8, -7).



12. A line that is perpendicular to the one shown below that passes through the point (12,3).



13. A line that is parallel to 3y = x + 12 and that passes through the point (6, -8) .

14. A line that is perpendicular to y - x = 7 and passes through the point (-2, -2).

^{15.} Lines s, t, and u all lie on the same plane. Line s is parallel to line t. Line t is perpendicular to line u. What is the relationship between lines s and u? How do you know?