

Name _____

Algebra 1 Final Exam Review #3

Find the slope of the line passing through the given points.

1. (2, 5) and (1, -3)
2. (1, 9) and (-7, 9)
3. (4, 8) and (4, -2)

4. What is the slope and the y-intercept of the line $y = 3x - 2$?

5. What is the slope and the y-intercept of the line $3x + 2y = 12$?

6. Write the equation of the line with slope 2 and y-intercept of (0, -3).

7. Write the equation of the line with slope -6 and y-intercept of (0,5).

8. Find the equation of the line with slope of $\frac{3}{5}$ that passes through the point (10, 4).

9. Find the equation of the line with slope of $\frac{-1}{2}$ that passes through the point (-2, 7).

10. Find the equation of the line that passes through the point (1, -5) and is parallel to the line $y = 2x + 3$.

11. Find the equation of the line that passes through the point (-4, 13) and is parallel to the line $y = -3x + 7$.

12. Find the equation of the line that passes through the point $(4, 5)$ and is perpendicular to the line $y = -2x + 7$.

13. Find the equation of the line that passes through the point $(4, 6)$ and is perpendicular to the line $y = -x - 5$.

14. Find the equation of the line that passes through the points $(3, 0)$ and $(6, 2)$.

15. Find the equation of the line that passes through the points $(3, 5)$ and $(6, 6)$.

16. Where do the lines $y = 3x - 2$ and $y = -4x + 12$ intersect?

17. Where do the lines $y = 4x - 1$ and $y = x - 4$ intersect?