

Algebra 1
Fall Semester Review #2

Chapter 5**Find the slope of the line that passes through the given points.**

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

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

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

4. (-6, 5) and (2, 9)

Find the equation of the line given the following information.

5. slope = -2, y-intercept (0, 6)

6. slope = $-\frac{1}{2}$, contains (-4, 3)

7. contains the points (1, 3) and (-4, 5)

8. contains the points (-2, 4) and (6, 0)

9. contains the point (4, -7) and is parallel to the line $y = -2x - 5$

10. contains the point (2, 10) and is perpendicular to the line $y = \frac{1}{2}x + 1$

Give the slope and y-intercept for each.

11. $y = 2x - 5$

12. $2x - 3y = 9$

13. $x - 2y = 10$

Find the x and y intercepts:

14. $8x + y = 16$

15. $4x - 3y = 12$

16. $-2x + 7y = -28$

Tell if the given point is on the given line (must show work).

17. (2, 1); $y = 2x - 3$

18. (1, -1); $y = 7x - 6$

19. (0, 3); $2x + y = 4$

Graph each equation.

20. $y = 2x - 3$

21. $x = -4$

22. $y = -\frac{1}{3}x + 5$

23. $6x - 9y = 18$

24. $y = 5$

25. $y = \frac{3}{4}x + 2$