**Chapter 5 Test 5.1-5.7**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Tell whether each equation is linear.**

1. y = 5x + 4 2. 5x +2y = - 12

3. xy = 6 4. y = 5

5. 2x = y/3 - 4 6. 4/x = y

**Use intercepts to graph the line.**

7. 4x – 6y = 12 8. 2x + 3y = 18

9. y= 2x + 10 10. 5x + 3y = 15

**Find the slope of the line.**

11. (3,6) and (6,9) 12, (2,7) and (4,4)

13. (-1, -5) and (-9,-1) 14. (5,0) and ( 2,3)

15. Solve: The value of y varies directly with x and y = 10 when x = -5. Find y when x = 15.

16. The value of y varies directly with x, and y = ½ when x = 3. Find y when x = 2

**Find the coordinates of the midpoint of each segment.**

17. End points (4,-6), and (-4,2)

18. Endpoints (-3,-1) and (0,1)

**Use the Distance Formula to find the distance between points. (Round to 2 decimal places)**

19. (1,-2) and (-4,-4)

20. (-2,7) and (-2,-8)

**Write the equation in slope-intercept form.**

21. 10x + 2y = 20

22. slope = 2/3 y-int = -3

23. slope = 5, point (2,7) is on the line.

24. Sketch a graph using the y-int as one point and using the slope to find another.

y = 2x -3