ALGEBRA II	Practice Quiz 3.1-3.4		Page 1	
Name		Date	Period	
<u>DIRECTIONS</u> : For #1-4, name the quadrant in which the points lie. Write your answers in the provided blanks using Roman numerals.				
1. (3, 5)	2. (-3, -5)	3. (-3,5)	4. (3, -5)	
DIRECTIONS: For #5-7,	find the slopes of the lines	s passing through the give	en points. Show all	

work. Write your answers in the provided blanks.

- **5.** (-3, 5), (6, 2)
- **6.** (-8, -3), (-5, 18)
- **7.** $\left(\frac{1}{3}, \frac{5}{4}\right), \left(\frac{4}{3}, \frac{11}{4}\right)$

<u>DIRECTIONS</u>: For #8-10, determine whether the lines from #5-7 (respectively) are **rising**, **falling**, **horizontal**, or **vertical**. Write the entire word in the provided blanks.

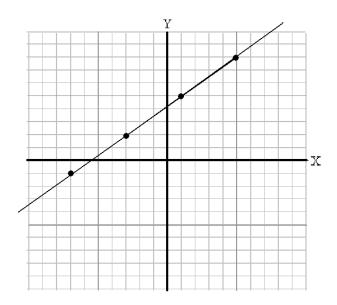
8. _____ 9. ____ 10. ____

<u>DIRECTIONS</u>: For #11-12, accurately describe the relationship between Line 1 & Line 2 as **parallel**, **perpendicular**, or **neither**. Write the entire word in the provided blanks.

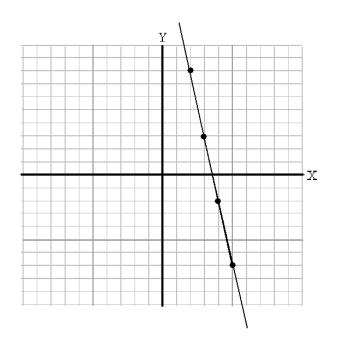
- **11.** Line 1: through (0,8) and (-6,0) Line 2: through (-7,9) and (-3,6)
- **12.** Line 1: through (-8, -2) and (-5, 4) Line 2: through (0, 4) and (1, 6)

<u>DIRECTIONS</u>: For #13-14, determine the slopes of the lines on the graphs. Write your answers in the provided blanks.

13.



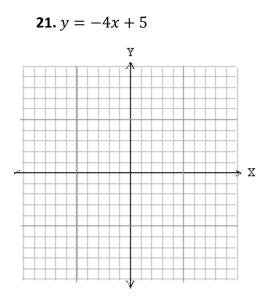
14.

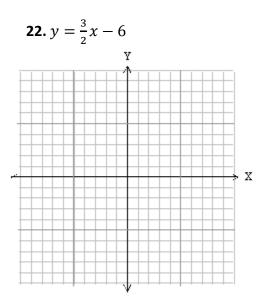


<u>DIRECTIONS</u>: For #15-20, answer the questions. Write your answers in the provided blanks. Be sure to list all intercepts as ordered pairs.

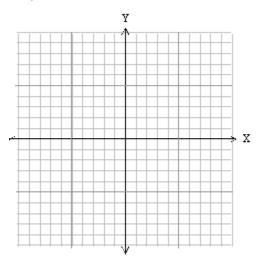
15. What is the slope of the line $4x + 8y = 17$?	
16. What is the slope of the line $9x = 4y - 7$?	
17. What is the slope of the line $y = -3x + 5$?	
18. What is the slope of the line $3y = 15$?	
19. What is the <i>x</i> -intercept of the line $2x - 7y = 14$?	
20. What is the <i>y</i> -intercept of the line $2x - 7y = 14$?	

<u>DIRECTIONS</u>: For #21-25, use the provided diagrams to accurately graph the given equations. Use a straightedge (such as a ruler) to make your lines.

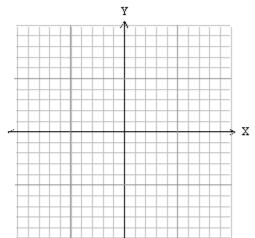


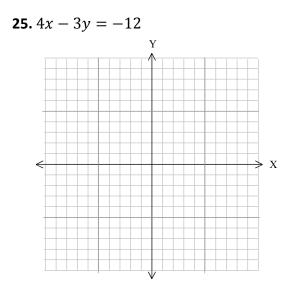


23. *y* = 5



24. 5x + 4y - 20 = 0





<u>DIRECTIONS</u>: For #26-32, write an equation in **standard form** (Ax + By = C) for the lines that are determined by the given information. Show all work.

26. Slope is -2 and y-intercept is (0, -4)

27. Contains (5, 6) and slope is
$$\frac{2}{3}$$

28. Contains (2, 7) and (-3, 7)

29. Contains (5, 7) and (-3, 3)

30. Slope is $-\frac{5}{6}$ and y-intercept is (0, 0)

31. Contains (1, -5) and is parallel to the line y = 2x + 8

32. Contains (2, 7) and is perpendicular to the line $y = -\frac{1}{6}x + 8$

DIRECTIONS: For #34, answer the question. Show all work. Remember to label your answer.

33. A ramp to a loading dock will be constructed with a slope of 2%. If the door is 8 feet above ground level, how long should the base of the ramp be?