Name Answers! 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)
1	ш	н	IV

<u>DIRECTIONS</u>: For #5-7, find the slopes of the lines passing through the given points. Show all work. Write your answers in the provided blanks.

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

<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. falling 9. rising 10. rising

<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.

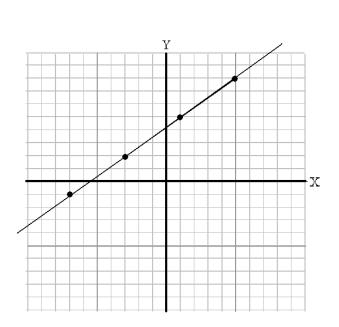
11. Line 1: through (0,8) and (−6 ,0)	Perpendicular
Line 2: through $(-7, 9)$ and $(-3, 6)$	

12. Line 1: through (-8, -2) and (-5, 4)Line 2: through (0, 4) and (1, 6)

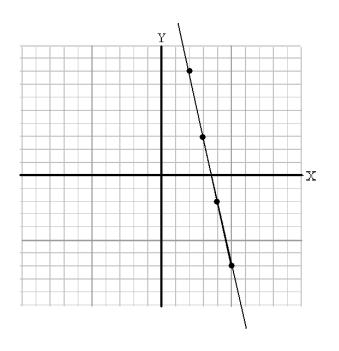
Parallel

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

13.



14.





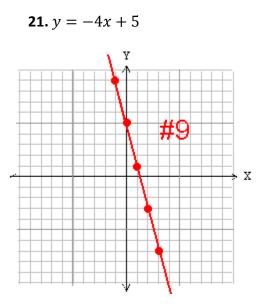
-5

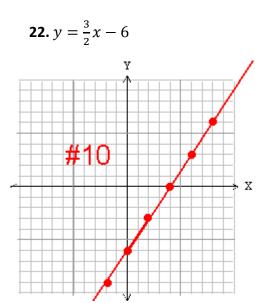
BowerPower.net

<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 $4x + 8y = 17$?	$-\frac{1}{2}$
16. What is the slope of the line $9x = 4y - 7$?	<mark>9</mark> 4
17. What is the slope of the line $y = -3x + 5$?	-3
18. What is the slope of the line $3y = 15$?	0
19. What is the <i>x</i> -intercept of the line $2x - 7y = 14$?	(7 , 0)
20. What is the <i>y</i> -intercept of the line $2x - 7y = 14$?	(0,-2)

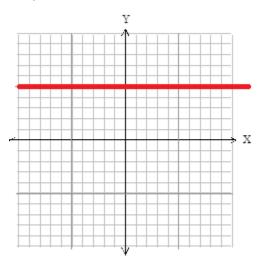
<u>DIRECTIONS</u>: For #21-25, use the provided diagrams to accurately graph the given equations. Use a straightedge (such as a ruler) to make your lines. **(Ignore the numbers beside the lines – they are from a previous review sheet)**



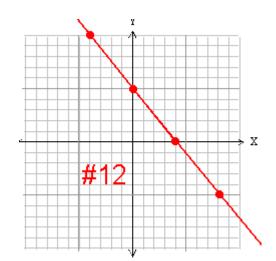


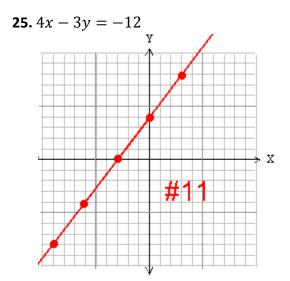
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23. *y* = 5



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
 27. Contains (5, 6) and slope is $\frac{2}{3}$
y-intercept is (0, -4)

$$2x + y = -4$$

2x - 3y = -8

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

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

$$y = 7 \qquad \qquad x - 2y = -9$$

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

5x + 6y = 0

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

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

$$2x - y = 7$$

6x - y = 5

DIRECTIONS: For #33, 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?

400 feet