

ALEKS® Final Prep Quiz 2 #1

Beginning Algebra / Math 100 – Master No Book (Prof. Miller)

Student Name/ID:

Instructor Note:

Directions: Every problem is worth two points. One point is for trying the problem and showing your work and one point is for getting the correct answer. There are an additional five points for demonstrating the study strategy that is posted on the board and talked about at the beginning of class.

1. Find the slope of the line passing through the points $(-9, -6)$ and $(-4, 5)$
2. Leila purchased a prepaid phone card for \$25 Long distance calls cost 23 cents a minute using this card. Leila used her card only once to make a long distance call. If the remaining credit on her card is \$14.65 how many minutes did her call last?

3. Find the x -intercept and y -intercept of the line.

$$6x - 8y = -15$$

x -intercept: _____

y -intercept: _____

4. Write equations for the horizontal and vertical lines passing through the point $(-8, 1)$

horizontal line:

vertical line:

5. Solve for w

$$-21 = -\frac{3}{7}w$$

Simplify your answer as much as possible.

6. Use the distributive property to remove the parentheses.

$$-5(-y - 4w + 3)$$

7. Calculate.

$$\frac{7 \times 10^8}{2 \times 10^5}$$

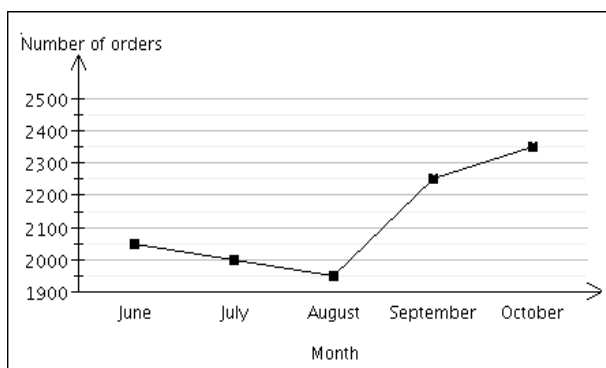
Write your answer in scientific notation.

8. Consider the line $y = -\frac{5}{2}x - 6$

(a) Find the equation of the line that is perpendicular to this line and passes through the point $(-8, 6)$

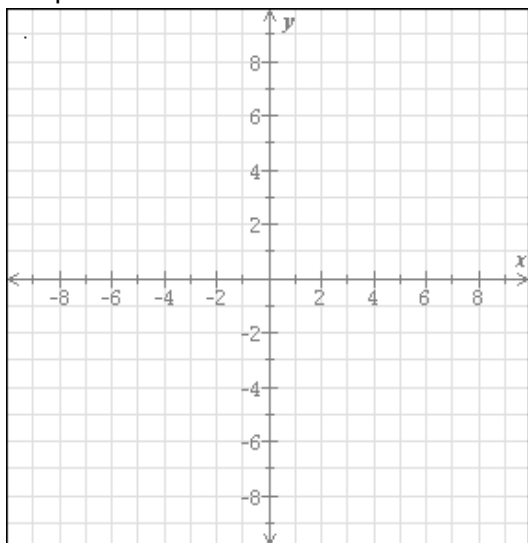
(b) Find the equation of the line that is parallel to this line and passes through the point $(-8, 6)$

9. The graph below shows the numbers of orders received by a company for five months.



- (a) What was the least number of orders in a month?
- (b) When did the number of orders have the greatest increase?
10. Evaluate the expression when $c = 5$ and $y = -6$
- $$-c + 9y$$
11. Solve for x
- $$y = (x - 8)m$$
12. A suit is on sale for 33% off. The sale price is \$335
- What is the regular price?
13. A washer and a dryer cost \$804 combined. The washer costs \$96 less than the dryer. What is the cost of the dryer?

14. Graph the line $x = -1$



15. Solve for y .

$$5(y + 5) - 8y = 31$$

Simplify your answer as much as possible.

Final Prep Quiz 2 #1 Answers for class Beginning Algebra / Math 100 – Master No Book

1. $\frac{11}{5}$

2. 45 minutes

3. x-intercept: $-\frac{5}{2}$

y-intercept: $\frac{15}{8}$

4. horizontal line: $y = 1$
vertical line: $x = -8$

5. $w = 49$

6. $5y + 20w - 15$

7. 3.5×10^3

8. Equation of perpendicular line: $y = \frac{2}{5}x + \frac{46}{5}$

Equation of parallel line: $y = -\frac{5}{2}x - 14$

9. (a) What was the least number of orders in a month?

1950 orders

(b) When did the number of orders have the greatest increase?

August to September

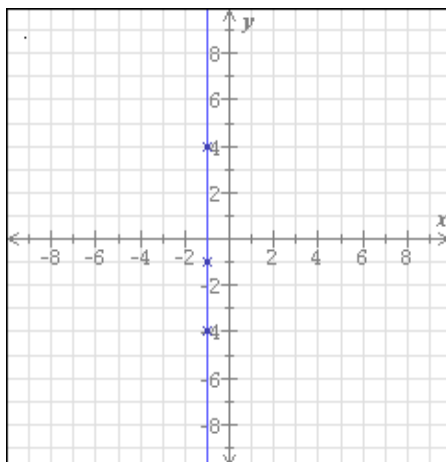
10. -59

11. $x = \frac{y}{m} + 8$

12. \$500

13. \$450

14.



15. $y = -2$