

In your own words define these vocabulary words.

negative signed number

origin

positive signed number

inequality (page 261)

scalar multiplication

quadrant

absolute value

integer

ordered pair

x - axis

y - axis

x - coordinate

y - coordinate

Graph these inequalities. Be sure to label your graph. (6.2)

1) $x > -4$



2) $x < 2$



3) $x \geq -6$



4) $x \leq 1$



5) $x < -2$ or $x \geq 3$



6) $x \geq 2$ and $x < 3$



7) $-1 < x$ or $-4 > x$



8) $-2 < x \leq 3$



9) $-4 < x < 0$



Find the sum (6.3)

10) $4 + -12$

10) _____

11) $\begin{bmatrix} 2 & -8 \\ -2 & 4 \end{bmatrix} + \begin{bmatrix} 1 & -9 \\ 4 & -12 \end{bmatrix}$

11) _____

What number make this equation true?

12) $19 + \underline{\hspace{1cm}} = -8$

12) _____

Find the mean of: (5.4)

13) $\{2, 8, 4, 9, 7, 5, 6, 8\}$

13) _____

Find the median of:

14) $\{2, 5, 8, 7, 4, 6, 9, 8, 7, 4, 3\}$

14) _____

Find the mode of:

15) $\{2, 9, 10, 6, 2, 8, 7, 4, 2, 11, 5, 4, 2\}$

15) _____

Show your steps while you solve for x

16) $4x - 7 = -2.2$

16) _____

17) $-8.1 + 4x = -0.1$

17) _____

Multiply or divide these and write your answer in the space provided. (6.4 and 6.5)

18) -9×8

18) _____

19) $45 \div -2$

19) _____

20) $-4 \div -8$

20) _____

21) $-7 (8)$

21) _____

22) $4.1 \cdot -2.1$

22) _____

23) $\begin{bmatrix} 2 & -8 \\ -2 & 4 \end{bmatrix} \cdot \begin{bmatrix} 1 & -9 \\ 4 & -12 \end{bmatrix}$

23) _____

24) $\begin{bmatrix} -4 & 8 \\ 1 & 2 \\ 4 & 3 \end{bmatrix} \cdot \begin{bmatrix} -6 \\ -7 \end{bmatrix}$

24) _____

Subtract these. Show how to change the “-” to a “+” sign and make any changes to the number directly after it.

25) $4 - -12$

25) _____

26) $4 - 12$

26) _____

27) $-5 - 9$

27) _____

Evaluate these expressions of absolute value.

28) $|-6|$

28) _____

29) $|2|$

29) _____

30) $|-20 - 6|$

30) _____

31) $|6| - |-2|$

31) _____

32) $-|8 - 10|$

32) _____

Solve for x:

33) $|x| = 12$

33) _____

34) $|x| = 0$

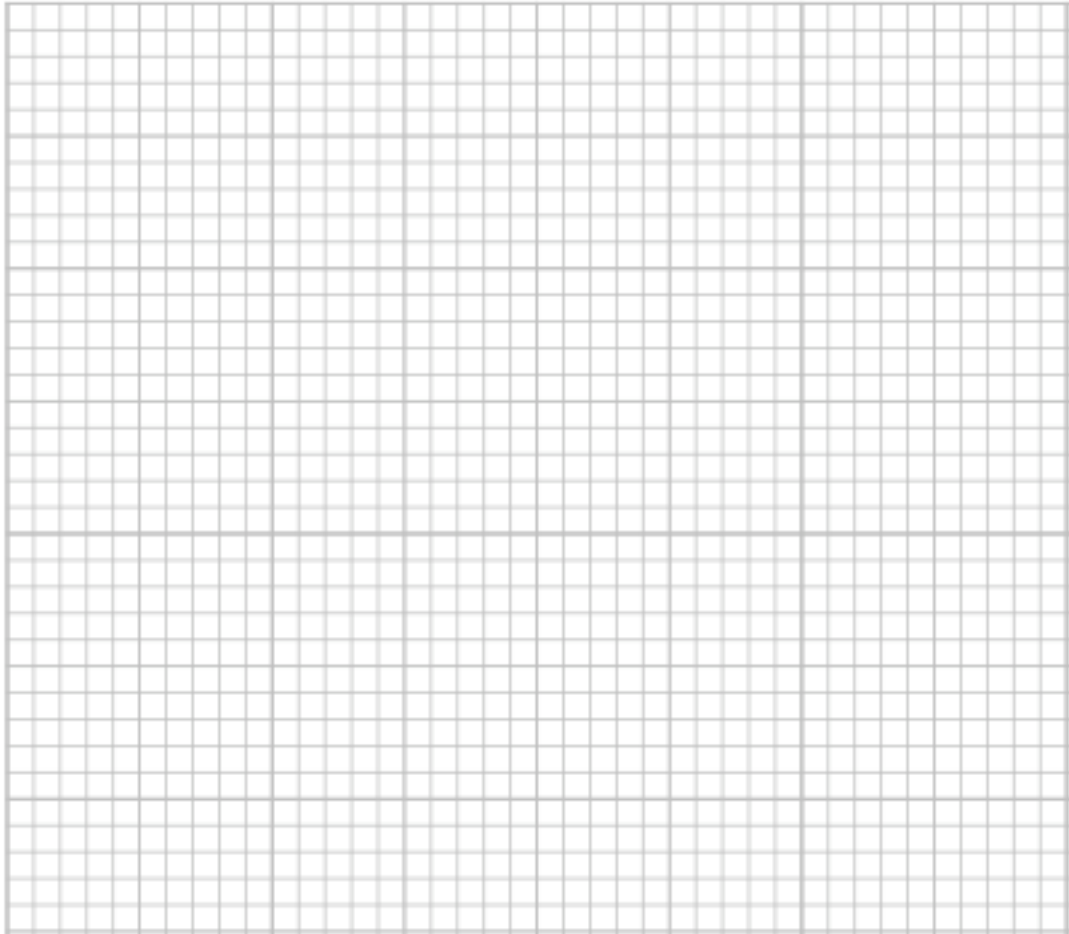
34) _____

35) $|x| = -45$

35) _____

36) Draw the x and y axis on the graph provided. Label each axis. Label each quadrant with the number I,II, III or IV. Draw a small circle at the origin then graph the following ordered pairs. Label each point with the letter given.

A (10,8), B(-10,-7), C(10,-7) D(-14, 8)



37) What is the length between points A and C? 37) _____

38) Draw a triangle using point A,B and C only. 38) _____

39) What is the distance between points A and B? 39) _____