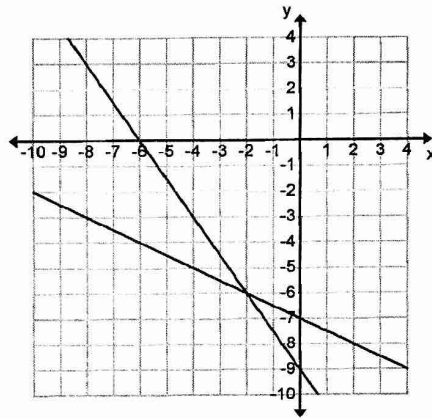
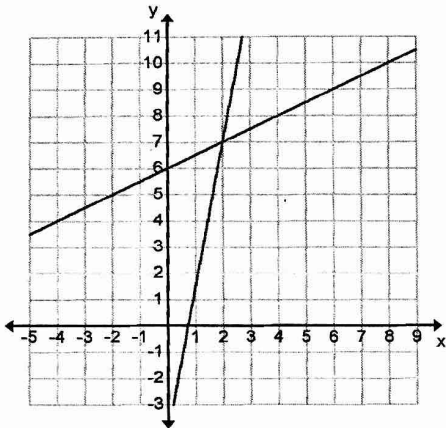


ANSWERS:

1.  $(-4, 2)$                       2. Infinite solutions                      3.  $(-9, -3)$
4.  $(-6, -3)$                       5.  ~~$(-1, 7)$~~  **no solution**                      6.  $(2, -1)$
7.  $(1, 0)$                       8. ~~No solution~~  $(6, 2)$                       9.  $(-3, 0)$

HW 46

**DID YOU REMEMBER TO GIVE THE SOLUTION IN POINT FORM?**



10.  $(2, 7)$                       11.  $(-2, -6)$

2. Answers will vary but points need to be on either side of the x-axis and close to the x-axis

13. Answers will vary. One example would be all of the points being above the x-axis

14. mean: 5, mode: 2 & 7, median: 5

15.  $y = \frac{2}{5}x + 10$  OR  $y - 6 = \frac{2}{5}(x + 10)$

**DID YOU REMEMBER TO DEFINE YOUR VARIABLES?**

For example:  $x$  = the NUMBER of sandals and  $y$  = the NUMBER of wedges

16.  $\begin{cases} x + y = 55 \\ 20x + 25y = 1250 \end{cases}$  The store sold 25 pairs of sandals and 30 pairs of wedges.

17. If  $y$  is the distance (in miles) from Seattle:

$$\begin{cases} y = 80x \\ y = 175 - 60x \end{cases}$$

If  $y$  is the distance (in miles) from Portland:

$$\begin{cases} y = 60x \\ y = 175 - 80x \end{cases}$$
 The trains pass each other after 1.25 hours, 100 miles from Seattle (or 75 miles from Portland).

18.  $\begin{cases} x + y = 15 \\ 7x + 25y = 231 \end{cases}$  The Math Club used 8 vans and 7 buses.

19. 
$$\begin{cases} x + y = 22 \\ .25x + .1y = 3.4 \end{cases}$$

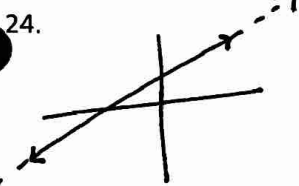
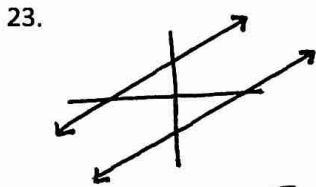
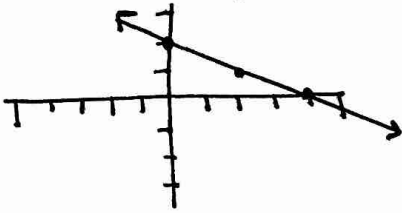
Ed bought 8 \$0.25 stamps and 14 \$0.10 stamps.

20. 
$$\begin{cases} x + y = 3 \\ 4.4x + 1.2y = 6 \end{cases}$$

You can buy 0.75 lbs of pinto beans and 2.25 lbs of kidney beans.

21. 
$$y = -\frac{9}{2} + \frac{1}{2}x$$

22. x-intercept: (4,0) y-intercept: (0,2)



same line

25. No