1. Point (-2, -4) is in which quadrant?

2. Find the distance between points (3, - 5) and (2, -1).

3. Find the midpoint of the line segment between points :
(-4, 3) and (2, 5).

4. Find the slope of the line containing points:
(-2, 5) and (3, -4).

5. Find the slope and the y-intercept of the line with equation:
$2y + 10x = 7$

6. Graph the line with equation: $3y - 2x = 12$

7. Find the equation of the line with slope 5 and through point $(-2,3)$.

8. Find the equation of the line that is parallel to line $y + 2x = 4$ and goes through point (2,-5).

9. Find the equation of the line through points (3, 2) and (2, -5).

10. Find the equation of the line that is perpendicular to line $2y - x = 13$ and goes through point (3, -2).

11. Find the x and y intercepts of line: $5y - 7x = 13$

12. Find the equation of the line that is parallel to the $x - axis$ and goes through point (5, 6).

13. Find the equation of the line that is perpendicular to the $x - axis$ and goes through point (7,8).

14. Find the equation of the line that is perpendicular to $y = 3$ and goes through (4, 5).

15. The graph of $x = -5$ goes through quadrants _____.

16. Which points are on line $-5x = 3$?

$$(2,13),\ (-1,-8),\ (-3,-12),\ (4,23),\ (0,3),\ (1,9)$$

17. Find the equation of the circle with center (-3,2) and radius 7.

18. Find the center and radius: $(x-5)^2 + (y+3)^2 = 9$

19. Find the center and radius: $x^2 + y^2 - 10x + 6x = 1$

20. Find the solution of the system of equations:

$$2x + 5y = -4$$
$$4x + 7y = -2$$

21. Find the solution of the system of equations:

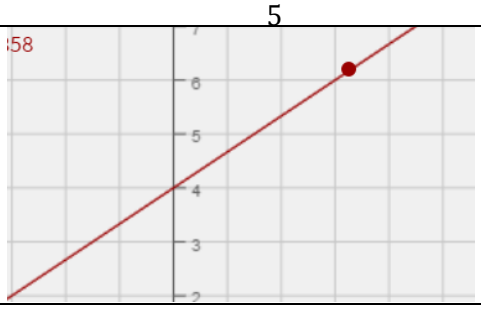
$$3x - 2y = -8$$
$$5x + 3y = -7$$

22. $|2x - 1| = 5$

23. $|3x + 2| < 7$

24. $|2x + 1| > 5$

Answers:

1	III	2	$\sqrt{17}$
3	$(-1,4)$	4	$\frac{-9}{5}$
5	$m = -5; \left(0, \frac{7}{2}\right)$	6	
7	$y = 5x + 13$	8	$y = -2x - 1$
9	$y = 7x - 19$	10	$y = -2x + 4$
11	$\left(-\frac{13}{7}, 0\right); \left(0, \frac{13}{5}\right)$	12	$y = 8$
13	$x = 7$	14	$x = 4$
15	II and III	16	$(2,13), (-3,-12), (4,23), (0,3)$
17	$(x+3)^2 + (y-2)^2 = 49$	18	$(5,-3), 3$
19	$(5,-3), \quad \sqrt{35}$	20	$x = 3, y = -2$
21	$x = -2, y = 1$	22	$3, -2$
23	$-3 < x < \frac{5}{3}$	24	$x > 2 \text{ or } x < -3$