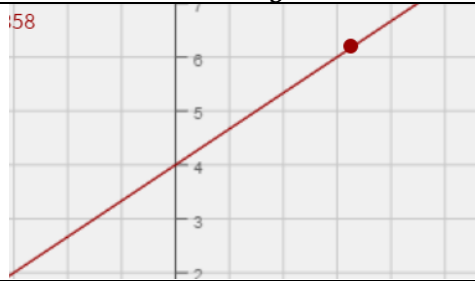


1. Point  $(-2, -4)$  is in which quadrant?
  2. Find the distance between points  $(3, -5)$  and  $(2, -1)$ .
  3. Find the midpoint of the line segment between points :  
 $(-4, 3)$  and  $(2, 5)$ .
  4. Find the slope of the line containing points:  
 $(-2, 5)$  and  $(3, -4)$ .
  5. Find the slope and the  $y$ -intercept of the line with equation:  
 $2y + 10x = 7$
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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  $(2, -5)$ .
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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  $(7, 8)$ .
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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  $-5x = 3$  ?  
 $(2, 13), (-1, -8), (-3, -12), (4, 23), (0, 3), (1, 9)$
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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:  $x^2 + y^2 - 10x + 6y = 1$
  20. Find the solution of the system of equations:  
$$2x + 5y = -4$$
$$4x + 7y = -2$$

<p><b>21.</b> Find the solution of the system of equations:</p> $3x - 2y = -8$ $5x + 3y = -7$
<p><b>22.</b> <math> 2x - 1  = 5</math></p>
<p><b>23.</b> <math> 3x + 2  &lt; 7</math></p>
<p><b>24.</b> <math> 2x + 1  &gt; 5</math></p>

Answers:

1	III	2	$\frac{\sqrt{17}}{5}$
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	$(5, -3), \sqrt{35}$	20	$x = 3, y = -2$
21	$x = -2, y = 1$	22	$3, -2$
23	$-3 < x < \frac{5}{3}$	24	$x > 2 \text{ or } x < -3$