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Math_Questions_0007

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1. In which quadrant is the point located?
   a) (3, 5)   b) (10, -14)   c) (0, -3)   d) (-3, -4)
   ANS: ANS: ANS: ANS:

4. In which quadrant is the point located?

   a) (1, -12)   b) (-2.5, 35.6)   c) $\left(-\dfrac{2}{3},-\dfrac{9}{8}\right)$ d) $\left(23\dfrac{5}{8},81.74\right)$
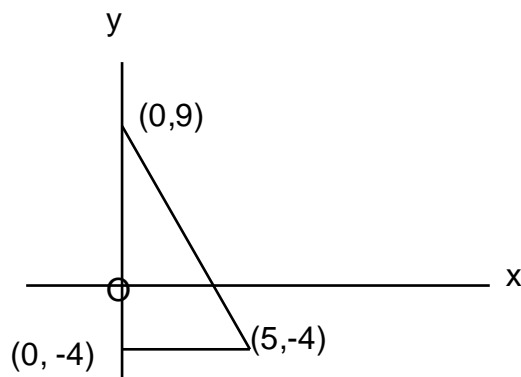
   ANS: ANS: ANS: ANS:

6. Three parallelograms share the vertices (-2, -3), (-1, 2), and (4, -3). Find the fourth vertex of each parallelogram. Hint: Draw the graph of each parallelogram by using a filler square paper. Then you can find the fourth vertices.
ANS:

7. Find the area of a triangle whose vertices have coordinates (0, 9), (0, -4), and 5, -4).
Hint; Draw the triangle by using a filler square paper to find its base and the height.
Solution:

8. Find the absolute value.
   a) $\left|-\dfrac{4}{5}\right|,$ b) $\left|\sqrt{3}\right|$,   c) $\left|\dfrac{7}{-8}\right|,$ d) |-4.3|
   ANS: ANS: ANS: ANS:

For problems 9-10, complete the table of:

9. $y = -2x$ 10. $5y - 3x = -10$

x	y	(x, y)		x	y	(x, y)
-3				-1		
-1				0		
0				1		
1				5		

11. Find the value of $y = 2.8x + 21.05$. Given;

   a) $x = 7$ b) $x = 9$
   ANS: ANS:

For problems 12-13, determine whether the given ordered pair is a solution of the equation.

12. (2,9); $y = 2x + 5$ 13. (0, 5); $5x - 3y = 15$
Solution: Solution:

For problems 14-16, an equation and <u>two ordered pairs</u> are given. Show that each ordered pair is a solution.

14. $y = x + 3$; (-1, 2) and (3, 6)   15. $3x + y = 7$; (2, 1) and (4, -5)
Solution: Solution:

16. $6x - 3 = 3y$; (1, 1) and (-1, 3)
Solution:

$6(1) - 3 = 3(1)$ (true)

$6(-1) - 3 = 3(3)$
Not true! Likely ther was a mistake--maybe the point should be (-1, -3) instead of (-1, 3)
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For problems 17-22, complete the table and identify the y-intercept.

17. $y = x - 1$

x	y	(x, y)
-2		
-1		
0		
1		

18. $y = \dfrac{1}{3}x$

x	y	(x, y)
-9		
-6		
0		
3		

19. $y = 2x + 2$

x	y	(x, y)
-1		
0		
1		
-2		

20. $y = \dfrac{5}{2}x + 3$

x	y	(x, y)
-2		
-1		
0		
-1		

21. $x + 2y = 6$

x	y	(x, y)
1		
2		
0		
-1		

22. $6x + 2y = 8$

x	y	(x, y)
2		
1		
0		
-1		

25. The equation $3x + 4y = 8$ and $y = -\dfrac{3}{4}x + 2$ are equivalent. Which equation is easier to graph and why?

ANS: