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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)  $\left(-\frac{2}{3}, -\frac{9}{8}\right)$

d)  $\left(23\frac{5}{8}, 81.74\right)$

ANS:

ANS:

ANS:

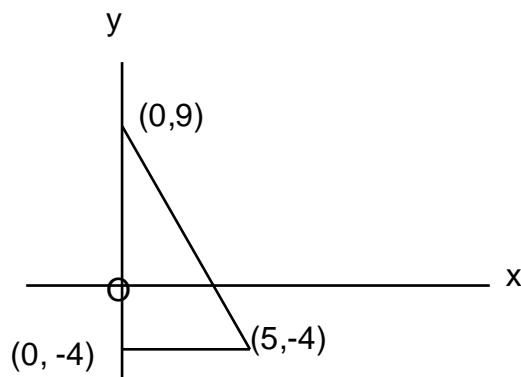
ANS:

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)  $\left|-\frac{4}{5}\right|$ ,

b)  $|\sqrt{3}|$ ,

c)  $\left|\frac{7}{-8}\right|$ ,

d)  $|-4.3|$

ANS:

ANS:

ANS:

ANS:

For problems 9-10, complete the table of:

9.  $y = -2x$

$\underline{x}$	$\underline{y}$	$\underline{(x, y)}$
-3		
-1		
0		
1		

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

$\underline{x}$	$\underline{y}$	$\underline{(x, y)}$
-1		
0		
1		
5		

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

a)  $x = 7$

ANS:

b)  $x = 9$

ANS:

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

12.  $(2, 9)$ ;  $y = 2x + 5$

Solution:

13.  $(0, 5)$ ;  $5x - 3y = 15$

Solution:

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

14.  $y = x + 3$ ;  $(-1, 2)$  and  $(3, 6)$

Solution:

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

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 there 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.  $y = x - 1$

<u>x</u>	<u>y</u>	<u>(x, y)</u>
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-2

-1

0

1

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

<u>x</u>	<u>y</u>	<u>(x, y)</u>
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-9

-6

0

3

19.  $y = 2x + 2$

<u>x</u>	<u>y</u>	<u>(x, y)</u>
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-1

0

1

-2

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

<u>x</u>	<u>y</u>	<u>(x, y)</u>
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-2

-1

0

-1

21.  $x + 2y = 6$

<u>x</u>	<u>y</u>	<u>(x, y)</u>
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1

2

0

-1

22.  $6x + 2y = 8$

<u>x</u>	<u>y</u>	<u>(x, y)</u>
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2

1

0

-1

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

ANS: