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**Math\_Questions\_0008**

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1. What is the point called at the intersection of the x-axis and y-axis?

ANS:

2. What is an ordered pair?

ANS:

3. What are the x- and the y-intercepts?

ANS:

4. What type of equation has a graph that is a vertical line?

ANS:

5. What type of equation that has a graph is a horizontal line?

ANS:

6. Which variable usually goes on the horizontal axis?

ANS:

For problems 7-13, in which quadrant the points located?

7.

a) (2, 5),

b) (-5, 1)

ANS:

ANS:

8.

a)  $\left(-3, -\frac{1}{2}\right)$

b) (-2, -6)

ANS:

ANS:

9.

a) (0, 4)

b) (2, 0)

ANS:

ANS:

10.

a)  $(\pi, -1)$

b)  $\left(\frac{4}{3}, 0\right)$

ANS:

ANS:

11.

a) (-4, 3)

b) (0, -3)

ANS:

ANS:

12.

a)  $\left(\frac{3}{2}, 0\right)$

b) (3, 2)

ANS:

ANS:

13. a)  $\left(0, -\frac{7}{3}\right)$ ; ANS:

b)  $\left(4, \frac{-10}{3}\right)$ ; ANS:

For problems 14 - 21, complete the ordered pairs so that each ordered pair satisfies the given equation.

14.  $y = x + 1$

- a) (1, )      b) ( , 2)      c) (3, )      d) ( , 4)

15.  $y = x - 1$

- a) (-1, )      b) ( , 0)      c) (0, )      d) ( , 2)

16.  $y = 2x - 3$

- a) (-1, )      b) ( , 4)      c) (-2, )      d) (-5, )

17.  $y = \frac{1}{3}x - 2$

- a) (3, )      b) (0, )      c) ( , -3)      d) (-2, )

18.  $x - y + 5 = 0$

- a) (0, )      b) ( , 4)      c) (-2, )      d) (-5, )

19.  $x + y + 7 = 0$

- a) ( , -7)      b) ( , 0)      c) (-3, )      d) (-4, )

20. a)  $y = -3x + 6$

- (2, )      ( , -3)

b)  $y = \frac{1}{2}x + 2$

- (4, )      (-1, )

21. a)  $\frac{1}{2}x - \frac{1}{3}y = 9$

- (-4, )      ( , 6)

b)  $2x - 3y = 5$

- ( , 1/3)      ( , -1)

22. The graph of the equation  $Ax + By = C$  is a vertical line, what can you conclude about  $B$ ? Why?

ANS:

23. Explain in your own words why the graph of  $y = 12$  is a horizontal line.

ANS:

24. The rising list price  $\$P$  for a new Camaro Z28 Coupe can be modeled by the equation  $P = 320n + 22,765$ , where  $n$  is the number of years since 2000. What will be the list price for a new Z28 Coupe in 2008?

Solution:

25. The equation  $C = 0.50t + 8.95$  gives the consumer's cost in dollars for a pan pizza, when  $t$  is the number of toppings. Find the value of  $t$  if  $C = \$14.45$  and interpret your result.

Solution:  $14.45 = 0.5t + 8.95$