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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: $14.45 = 0.5t + 8.95$