Graded quiz on Cartesian Plane and Types of Function

NÚMERO TOTAL DE PONTOS 13

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1. Which of the following points in the Cartesian Plane have positive x-coordinate and negative y-coordinate?

   1 ponto

   - ⦿ $(7, -1)$
   - ○ $(-4, 5)$
   - ○ $(5, 7)$
   - ○ $(0, 0)$

2. Which of the following points is in the first quadrant of the Cartesian Plane?

   1 ponto

   - ○ $(-5, 1)$
   - ○ $(5, -1)$
   - ○ $(-4, -7)$
   - ⦿ $(7, 11)$

3. Let A, B, C, D be points in the Cartesian Plane, and let the set $S = \{B, C, D\}$

   1 ponto

   Suppose that the distances from A to B, C, D are $5.3, 2.1$, and 11.75, respectively.

   Which of the following points is the nearest neighbor to the point A in the set S?

   - ⦿ C
   - ○ B

○ D

○ A

4.   Find the distance between the points $A = (2, 2)$ and $B = (-1, -2)$.   ⬭ 1 ponto

   ◉ 5

   ○ 25

   ○ 1

   ○ -25

5.   Find the slope of the line segment between the points $A = (0, 1)$ and $B =$ ⬭ 1 ponto
   $(1, 0)$.

   ◉ -1

   ○ 1

   ○ $\sqrt{2}$

   ○ 0

6.   Find the point-slope form of the equation of the line with slope -2 that goes   ⬭ 1 ponto
   through the point $(5, 4)$.

   ○ $y - 5 = -2(x - 4)$

   ◉ $y - 4 = -2(x - 5)$

   ○ $y - 4 = 2(x - 5)$

   ○ $(5, 4)$

7.   ⬭ 1 ponto

Which of the following equations is for a line with the same slope as $y = -3x + 2$?

○ $y = 5x + 2$

○ $y = 5x$

◉ $y = -3x - 8$

○ $y = 8x - 3$

8. Which of the following equations is for a line with the same y-intercept as $y = -3x + 2$?

1 ponto

◉ $y = 5x + 2$

○ $y = 8x - 3$

○ $y = -3x - 8$

○ $y = 5x$

9. How many lines contain both the point $A = (1, 1)$ and the point $B = (2, 2)$?

1 ponto

◉ infinitely many

○ 1

○ 2

○ None

10. Suppose that we have two sets, $A = \{a, b\}$ and $Z = \{x, y\}$. How many different functions $F : A \to Z$ are possible?

1 ponto

◉ 4

○ There are infinitely many

○ 1

○ There are none

11. How many graphs contain both the point $A = (0, 0)$ and the point $B = (1, 1)$

1 ponto

◉ Infinitely many

○ 1

○ None

○ 2

12. Suppose that $g : R \to R$ is a continuous function whose graph intersects the x-axis more than once. Which of the following statements is true?

1 ponto

○ g is strictly increasing.

○ All of the above.

◉ g is neither strictly increasing nor strictly decreasing.

○ g is strictly decreasing.

13. Find the slope of the line segment between the points $A = (1, 1)$ and $B = (5, 3)$.

1 ponto

○ $\sqrt{20}$

○ 4

○ 2

◉ \begin {align}\frac12\end {align}

☐ Eu compreendo que enviar um trabalho que não seja meu pode resultar em fracasso permanente deste

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