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NOTES

100%

Graded quiz on Cartesian Plane and Types of Function

NOTES DE LA COMMISSION LA PLUS RÉCENTE

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

- ☒ (7, -1)
☐ (5, 7)
☐ (0, 0)
☐ (-4, 5)

✓ **Correct**

The x-coordinate, x , is positive, and the y-coordinate, y , is negative.

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

- ☐ (-5, 1)
☐ (-4, -7)
☐ (5, -1)
☒ (7, 11)

✓ **Correct**

The first quadrant is defined to be all points in the Cartesian plane whose coordinates are both positive.

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

Suppose that the distance 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 ?

- ☐ A
☐ D
☐ B
☒ C

✓ **Correct**

The distance from A to C is 2,1 and that is smaller than the distance from A to any other element of S .

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

- ☒ 5
☐ 1
☐ 25
☐ -25

✓ **Correct**

Recall that the distance between points (a, b) and (c, d) is $\sqrt{(c-a)^2 + (d-b)^2}$.

In this case we have:

$$\sqrt{(-1-2)^2 + (-2-2)^2} = \sqrt{(-3)^2 + (-4)^2} = \sqrt{25} = 5$$

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

- ☒ -1
☐ 1
☐ $\sqrt{2}$
☐ 0

✓ **Correct**

The slope of this line segment is $\frac{0-1}{1-0} = -1$

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

- ☒ $y - 4 = -2(x - 5)$
☐ $y - 4 = 2(x - 5)$