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Practice quiz on the Cartesian Plane

PUNTOS TOTALES DE 5

1. Which of the following points in the Cartesian Plane is on the y-axis? **1 / 1 punto**

- $(-5, 0)$
- $(5, 0)$
- $(1, 1)$
- $(0, -5)$

Correcto

The y-axis is defined to be all points in the Cartesian plane with zero as x-coordinate. The point $(0, -5)$ meets that requirement.

2. Find the distance between the points $A = (2, 2)$ and $C = (3, 3)$: **1 / 1 punto**

- ○ 2
- ○ 1
- ◉ $\sqrt{2}$
- ○ 0

✓ **Correcto**

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

In this case $(a, b) = (2, 2)$ and $(c, d) = (3, 3)$, so the distance is $\sqrt{(3-2)^2 + (3-2)^2} = \sqrt{2}$.

3. Find the point-slope form of the equation of the line that goes between $A = (1, 1)$ and $B = (5, 3)$: **1 / 1 punto**

- ○ $y - 1 = \frac{1}{2}(x - 5)$
- ○ $y - 3 = \frac{1}{2}(x - 1)$
- ○ $y = \frac{1}{2}x$
- ◉ $y - 1 = \frac{1}{2}(x - 1)$

✓ **Correcto**

The point-slope form for the equation of a line with slope m that goes through the point

4. Which of the following points is on the line with equation: **1 / 1 punto**

$y - 1 = 2(x - 2)$?

- ○ $(3, 2)$
- ○ $(0, 0)$
- ○ $(2, 3)$
- ◉ $(2, 1)$

✓ **Correcto**

If we plug in 1 for y and 2 for x in the equation of the line, we make a true statement, $0 = 0$, so this point lies on the line.

5. Suppose that a line ℓ has slope 2 and goes through the point $(-1, 0)$. What is the y-intercept of ℓ? **1 / 1 punto**

- ○ 1
- ○ 0
- ◉ 2
- ○ -1

✓ **Correcto**

Recall that the y-intercept of ℓ is the y-coordinate of where ℓ hits the y-axis.