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

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

✓ 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 puntos

- ○ 2
- ◉ $\sqrt{2}$
- ○ 1
- ○ 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 puntos

- ○ y = \begin {align}\frac12 x \end {align}
- ○ y-3 =\begin {align}\frac12(x-1)\end {align}
- ◉ y - 1 =\begin {align} \frac12(x-1)\end {align}
- ○ y -1 = \begin {align} \frac12(x-5)\end {align}

✓ Correcto

The point-slope form for the equation of a line with slope m that goes through the point (x_0,y_0) is $y-y_0=m(x-x_0)$

In this case, the slope m = \begin {align} \frac{3-1}{5-1} = \frac12\end {align}

We can choose either A or B for the point on the line, but in neither case do we get this chosen answer.

4. Which of the following points is on the line with equation: 0 / 1 puntos

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

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

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 puntos

- (•) 2
- ( ) -1
- ( ) 1
- ( ) 0