## Your grade: 100%

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Next item →

1/1 point

- 1. Which of the following points in the Cartesian Plane have positive x-coordinate and negative ycoordinate?
  - $\bigcirc (-4,5)$
  - (7, -1)
  - O (5,7)
  - $\bigcirc$  (0,0)

The x-coordinate, 7, is positive, and the y-coordinate, -1, is negative.

- 2. Which of the following points is in the first quadrant of the Cartesian Plane?
  - (7,11)
  - $\bigcirc (-4, -7)$
  - O (5,-1)
  - $\bigcirc (-5,1)$

⊙ 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  $S=\{B,C,D\}$ 

1/1 point

1/1 point

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

Which of the following points is the nearest neighbor to the point  ${\cal A}$  in the set  ${\cal S}$  ?

- $\bigcirc$  A
- Ов
- O D

**⊘** Correct

The distance from A to C is 2.1 and that is smaller than the distance from A to any other element

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

1/1 point

- O 1
- $\bigcirc$  -25
- 5
- O 25

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 point

- -1
- O 1
- $\bigcirc \sqrt{2}$
- O 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).

1/1 point

- O (5, 4)
- $\bigcirc \ y-4=2(x-5)$
- $\bigcirc y 5 = -2(x 4)$

The point-slope form for the equation of a line with slope  $\boldsymbol{m}$  that goes through the point

	In this case, the slope $m=-2$ is given and the point $(5,4)$ on the line is given.	
7.	Which of the following equations is for a line with the same slope as $y=-3x+2$ ?	1/1po
	0 1	
	$\bigcirc y = 5x$ $\bigcirc y = 8x - 3$	
	y = 6x - 3	
	y = -3x - 8 $ y = 5x + 2$	
	$\odot$ correct  The slope-intercept formula for a line is $y=mx+b$ , where $m$ is the slope and $b$ is the $y$ -coordinate of the point where the line hits the $y$ -axis.	
	This line has slope $m=-3$ which is the same slope as the given line.	
١.	Which of the following equations is for a line with the same $y$ -intercept as $y=-3x+2$ ?	1/1po
	(a) $y = 5x + 2$	
	y = 3x + 2 $y = -3x - 8$	
	$\bigcirc y = -3x - 8$ $\bigcirc y = 5x$	
	$\bigcirc y = 5x$ $\bigcirc y = 8x - 3$	
	$\odot$ correct  The the slope-intercept formula for a line is $y=mx+b$ , where $m$ is the slope and $b$ is the $y$ -coordinate of the point where the line hits the $y$ -axis. This line has a $y$ -intercept of $2$ which is the same as the given line.	
	How many lines contain both the point $A=(1,1)$ and the point $B=(2,2)$ ?	1/1po
	<b>(a)</b> 1	
	○ None	
	infinitely many	
	○ 2	
	⊙ correct	
.0.	$\odot$ Correct The line with equation $y=x$ is the one and only line that meets the stated requirements.	1/1po
0.	⊙ correct	1/1po
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0.		1/1po
0.		1/1po
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<ul> <li>All of the above.</li> <li>g is strictly increasing.</li> <li>○ Correct         The function g fails the horizontal line test, so it can neither be strictly increasing nor strictly decreasing.     </li> </ul>	$\bigcup \ y$ is strictly decreasing.
<ul> <li>         ⊙ g is strictly increasing.     </li> <li>         ⊙ correct         The function g fails the horizontal line test, so it can neither be strictly increasing nor strictly decreasing.     </li> </ul>	lacktriangledown $g$ is neither strictly increasing nor strictly decreasing.
$\odot$ Correct The function $g$ fails the horizontal line test, so it can neither be strictly increasing nor strictly decreasing.	All of the above.
The function $g$ fails the horizontal line test, so it can neither be strictly increasing nor strictly decreasing.	$\bigcirc \ g$ is strictly increasing.
Find the class of the line comment between the points $A=(1,1)$ and $B=(5,2)$	The function $\boldsymbol{g}$ fails the horizontal line test, so it can neither be strictly increasing nor strictly
	F. 10. 1 (1.1) P. (5.2)
	O 2
O 2	O 4
O 4	

 $\odot$  Correct The slope of this line segment is  $\dfrac{3-1}{5-1}=\dfrac{1}{2}$  , where 3-1 is the rise and 5-1 is the run.