



TO PASS 75% or higher

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grade 76.92%

Graded quiz on Cartesian Plane and Types of Funct LATEST SUBMISSION GRADE 76.92%	ion
1. Which of the following points in the Cartesian Plane have positive x -coordinate and negative y -coordinate? (5,7) (0,0) (7,-1) (-4,5)	1 point
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? $\bigcirc \ (-5,1)$ $\bigcirc \ (-4,-7)$ $\bigcirc \ (5,-1)$ $ \bigcirc \ (7,11)$	71 point
Correct The first quadrant is defined to be all points in the Cartesian plane whose coordinates are both positive.	
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 ? D B C A 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 .	(1 point)
4. Find the distance between the points $A=(2,2)$ and $B=(-1,-2)$. ① 1 ② 5 ② 25 ③ -25 ② 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: $\sqrt{(-1-2)^2+(-2-2)^2}=\sqrt{(-3)^2+(-4)^2}=\sqrt{25}=5$	/ 1 point

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

1 / 1 point

O 1

$$\bigcirc \sqrt{2}$$

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).

$$0 y-4=2(x-5)$$

$$0 y - 5 = -2(x - 4)$$

O (5,4)

✓ Correc

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=-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 / 1 point

$$\bigcirc y = 5x$$

$$y = -3x - 8$$

$$\bigcirc \ y = 5x + 2$$

$$\bigcirc \ y=8x-3$$

✓ 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.

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

1 / 1 point

$$\bigcirc y = 5x$$

$$\bigcirc y = 8x - 3$$

$$\bigcirc \ y = -3x - 8$$

Correc

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.

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

0 / 1 point

O infinitely many

10. Suppose that we have two sets, $A=\{a,b\}$ and $Z=\{x,y\}$. How many different functions $F:A\to Z$ are possible?	point
O There are none	
There are infinitely many	
O 1	
O 4	
Incorrect $ \begin{tabular}{ll} Incorrect \\ The set A is finite, and each element in A can only be transformed into finitely many choices of element in Z. \\ \end{tabular} $	
11. How many graphs contain both the point $A=(0,0)$ and the point $B=(1,1)$	point
O Infinitely many	
② 2	
○ None	
O 1	
! Incorrect Here are at least three functions whose graphs contain both A and B : $f(x)=x, g(x)=x^2,$ and $h(x)=x^3$	
Which of the following statements is true?	point
$\bigcirc g$ is strictly increasing.	
All of the above.	
lacktriangledge g is neither strictly increasing nor strictly decreasing.	
igcirc g is strictly decreasing.	
\checkmark Correct The function g fails the horizontal line test, so it can neither be strictly increasing nor strictly decreasing.	
13. Find the slope of the line segment between the points $A=(1,1)$ and $B=(5,3)$.	point
○ 4 ○ 2	
\checkmark correct The slope of this line segment is $\frac{3-1}{5-1}=\frac{1}{2}$, where $3-1$ is the rise and $5-1$ is the run.	

Incorrect

There is only ever one line connecting two points in the Cartesian Plane.