



Practice quiz on the Cartesian Plane

TOTAL DES		
	th of the following points in the Cartesian Plane is on the y-axis?	1/1 point
0 1		
0 1		
	(0, -5)	
0 1	(-5,0)	
~	\prime correct 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.	
	the distance between the points $A=\{2,2\}$ and $C=\{3,3\}$:	1/1 point
0		
0:		
•	v2	
~	Correct	
	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 t	the point-slope form of the equation of the line that goes between $A=(1,1)$ and $B=(5,3)$:	1 / 1 point
	$y-3 = \frac{1}{2}(x-1)$	
	$y = \frac{1}{2}x$	
	$y - 1 = \frac{1}{2}(x - 5)$	
•	$r - 1 = \frac{1}{2}(x - 1)$	
~	Correct The point-slope form for the equation of a line with slope m that goes through the	
	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 $m = \frac{3-1}{5-1} = \frac{1}{2}$	
	We can choose either A or B for the point on the line, but in neither case do we get this chosen answer.	
4. Whic	th of the following points is on the line with equation:	1/1 point
11 -	1 = 2(x - 2)?	
01		
•		
0		
0		
~	Correct 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.	
 Support of £2 	sose that a line ℓ has slope 2 and goes through the point $(-1,0)$. What is the y -intercept	1 / 1 point
0:1		
@ :		
0	•	
~	Correct Recall that the y-intercept of ℓ is the y-coordinate of where ℓ hits the y-axis.	
	necessaries y exercept of a is the groundinate of where a first the g-axis.	
	Since $(-1,0)\in\ell$, the point on ℓ with $x=0$ is obtained by running one unit from $(-1,0)$ while rising two units.	
	This gives $y=2$ as the y -intercept.	
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