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How to write in point slope

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While you could plot several points by just plugging in values of x , the point-slope form makes the whole process simpler. Point-slope form is also used to take a graph and find the equation of that particular line. The point slope form gets its name because it uses a single point on the graph and the slope of the line. Think about it this way: You have a starting point on a map, and you are given a direction to head. You have all the information you need to draw a single line on the map. The standard point slope formula looks like this: $y - y_1 = m(x - x_1)$ It should be noted that (y_1) does not mean y multiplied by 1. In this case it denotes a specific y value which you will plug into the equation. The variable m is the slope of the line. Example 1 You are given the point $(4, 3)$ and a slope of 2. Find the equation for this line in point slope form. Solution: Just plug the given values into your point-slope formula above. Your point $(4, 3)$ is in the form of (x_1, y_1) . That means where you see (y_1) , use 3. Where you see (x_1) , use 4. Your slope was given to you, so where you see m , use 2. Pretty simple, huh? Your final result should look like: $y - y_1 = m(x - x_1)$ $y - 3 = 2(x - 4)$ More Practice: Your point is $(-1, 5)$. The slope is $1/2$. Create the equation that describes this line in point-slope form. Try working it out on your own. The answer is: $(y + 1 = \frac{1}{2}(x - 5))$. If that's not what you got, re-read the lesson and try again. Point-slope form is all about having a single point and a direction (slope) and converting that between an algebraic equation and a graph. In the example above, we took a given point and slope and made an equation. Now let's take an equation and find out the point and slope so we can graph it. Example 2 Find the equation (in point-slope form) for the line shown in this graph: Solution: To write the equation, we need two things: a point, and a slope. It is simple to find a point because we just need ANY point on the line. The point I've indicated, $(-1, 0)$, just happens to be the easiest one to find. Note also that it is useful to pick a point on the axis, because one of the values will be zero. Finding the slope requires a little calculation, but it is also pretty easy. Just count the number of lines on the graph paper going in each direction of a triangle, like I've shown. Remember that slope is rise over run, or y/x . Therefore the slope of this line is 2. You could have used any triangle to figure out the slope and you would still get the same answer. Putting it all together, our point is $(-1, 0)$ and our slope is 2. We know how to use the point-slope form, so the final answer is: $y - 0 = 2(x + 1)$ Want to keep practicing even more? Check out this point-slope worksheet, and when you're done, the answer key. As you can see, point-slope form is nothing too complicated. It is just one method to writing an equation for a line. The other common way of doing this is the $y = mx + b$ method. Just practice converting between a line on a graph and an equation and you'll get the hang of it in no time. And of course, if you need more help, feel free to ask the volunteers on our math help message board. In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Just like there is more than one way to peel an onion, there are several ways to write the equation of a line. Jenn, Founder Calcworkshop®, 15+ Years Experience (Licensed & Certified Teacher) Ultimately, it comes down to preference, but in my humble opinion, there is one method that is far better than the rest: Point Slope Form! The Point-Slope equation is specifically designed to handle the trickiest type of questions, namely, how do you write an equation given two points? First, we take our two points and find the slope. Next, we pick one of our two given points, and the slope we just found, and plug them into the point-slope form formula. Done! Remember, slope represents the steepness or the rate of change of our linear equation. In fact, this method is so straightforward, that you will find writing linear equations super easy! And through this lesson, we will discover that the point-slope form definition is really just an extension of our beloved slope formula. Formula for Point Slope Form It's true! All we have to do is a little rearranging, as Math Is Fun so fittingly states, and we will see that point slope form is just the slope formula in disguise. But the excitement continues... did you know that the point-slope form helps us approximate other points on a curve (i.e., linear approximation) and is also called a first-degree Taylor polynomial? What? Yep, this little formula is used in calculus to find the equation of a tangent line to a curve and helps us to represent a function as an infinite sum of terms. And no matter where you are on your mathematical journey, the idea that Algebra and Calculus are intrinsically connected is just plain cool! Here are a few examples just to give you a taste of what we will be doing in this lesson. Seven Point-Slope Form Examples Find the y -intercept with slope and point Write an equation of a line given the y intercept and another point Using $y - y_1 = m(x - x_1)$ to write the equation of a line How to find $y = mx + b$ with two points Find the y intercept given two points Use $y = m(x - x_1) + y_1$ to write the equation of the line Given the Point $(4, 5)$ and Slope of 6, find y when $x = 24$ So, together we are going to learn how to: Write the equation of a line using point-slope form. Represent equations from point slope form to slope intercept form. Represent equations from point slope form to standard form. Write equations of parallel lines and perpendicular lines by finding the line that passes through a point and has either parallel slope or perpendicular slope to the graph of a given equation. Point Slope Form – Video Get access to all the courses and over 150 HD videos with your subscription Monthly, Half-Yearly, and Yearly Plans Available Get My Subscription Now Not yet ready to subscribe? Take Calcworkshop for a spin with our FREE limits course how to write in point slope form. how to write in point slope form with two points. how to write in point-slope form the equation of the line. how to write equations in point slope form. how to write an equation in point slope form from a graph. how to write something in point slope form. how to write in slope intercept form with one point. how to write an equation in point slope form calculator

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