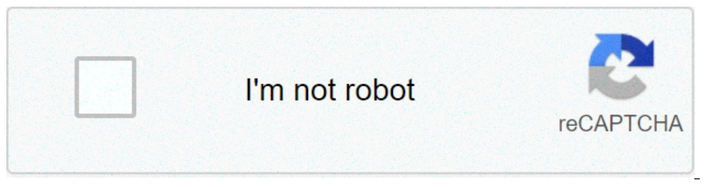


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# Slope intercept to standard form

A standard form equation is when Ax + By = C. 6x + 2y = 4 is set An equation of the form of intercept of slope is when y=mx+b is set. Y = - 3x + 2 To go from one module to another, all you have to do is change the order of the data numbers. First you want to move the Ax on the opposite side of the equation, adding or subtracting. At this point your equation will be set by = -Ax + C. Then you want to divide the B from By and the rest of the equation. Then you will have y = - Ax/B + C/B. This is the same as the form of interception of slope, only some of the letters are different. Example 1: Change from standard to slope form 8x + 4y = 16 8x + 4y = 16 first subtract 8x 4y = -8x + 16 then divide all of 4 y = -2x + 4 slope module Example 2: 6x + 3y = 21 6x + 3y = 21 subtract 6x 3y = -6x + 21 then divide all of 3 y = -2x + 7 learning slope module Give the slope of the point and the standard forms of linear equations and define their parts. · Convert point slope and standard form equations between them. · Apply the appropriate linear equation formula to solve problems. Linear equations can take on different forms, such as point-slope formula, slope intercept formula and the standard form of a linear equation. These forms allow the mathematicians to describe the exact same line in differentThis can be confused, but it is actually quite useful. Consider how many different ways you could write a milk request in a shopping list. You could ask for white milk, cow's milk, a milk quartet, or skimmed milk, and each of these phrases would describe the same product. The description you use will depend on the characteristics that most import for you. Equations to describe the lines can be chosen in the same way—can be written and manipulated according to which the characteristics of the line are of interest. Even better, when a different feature becomes important, linear equations can be converted from one form to another. A type of linear equation is the form of slope of the point, which gives the slope of a line and the coordinates of a point on it. The slope form of the point of a linear equation is written as . In this equation, m is the slope and (x1, y1) are the coordinates of a point. Let's take a look at where this tip-slope formula comes. Here is the chart of a generic line with two points drawn on it. The slope of the line is “return in the race”. This is the vertical change between the two points (the difference in the y coordinates) divided by the horizontal change on the same segment (the difference in x-coordinates). This can be written as . This equation is the formula of the slope. Now we say that one of these points is a generic point (x, y), which only means that it could be anywhere on the line, and the other point is a specific point, .connect these coordinates in the formula, we get . Now we can reorder the equation a little by multiplying both sides of the formula by . This simplifies to . is the tip-slope formula. We converted the pend formula into the dot pendium formula. We didn't just do it for fun, but because the dot formula is sometimes more useful than the slope formula, for example when we need to find the equation of a line when given a point and slope. Let's give an example. Consider a line that passes through the point (1, 3) and has a slope of . Putting these values in the point-slope formula, we get. This is the equation of the line. What are the following points on the line (y + 8) = 7(x − 5)? A) (5, -8) B) (5, 8) C) (8, 5) D) (8, -5) Show/Hide AnswerA) (5, -8) Correct. In the date equation, x1 is 5 and y1 is -8. This means that the correct answer is (5, -8). B) (5, 8) Not correct. You lost a mark. In the date equation, x1 is 5 and y1 is -8. This means that the correct answer is (5, -8). C) (8, 5) Not correct. You reversed x and y and lost a mark. In the date equation, x1 is 5 and y1 is -8. This means that the correct answer is (5, -8). D) (-8, 5) Not correct. You reversed x and y. In the date equation, x1 is 5 and y1 is -8. This means that the correct answer is (5, -8). Remember, the tip-slope formula is just oneof linear equation. It is effective in describing some of the features of a straight line. However, point slope equations can be uncomfortable to use in some algebraic operations. In such cases, it can be useful to convert equation into a different form, standard form. The standard form of an equation is Ax + By = C. In this type of equation, x and y are variable and A, B and C are whole. We can convert a dot slope equation into standard form by moving variables to the left side of the equation. Let's go back to that point-slope equation. We can reorganize the terms as follows: Example Problem (y − 3) = 4(y − 3) = 4y − 12 = -1x + 1 x + 4y − 12 = -x + 1 + x + 4y − 12 = 1 x + 4y − 12 + 12 Standard form x + 4y = 13 When you move the variable terms on the left side of the equation and all the rest on the right side, you get . This equation is now in standard form. Combining Formula to the Situation Now we know how to convert point-shaped gradient equations to standard form, and how to go back and forth between a chart and a linear equation. But with so many choices, how do we decide which form to use in a real life situation? The answer is to identify what you know and what you want to find out, and see what form you use these terms. We look at a situation where a form of equation is more useful than others. Andre wants to buy an MP3 player. He got $50 for his birthday, but the player he wants costs $230, so he'sto have to save the rest. Your plan is to save $30 a month until you have the money you need. We will help him by writing an equation to analyze this situation. This will help us understand when you have saved enough to buy the MP3 player. When we write the equation, let x be the time in months, and you are the amount of money saved. After 1 month, Andre has $80. This means when x = 1, y = 80. So we know that the line passes through the point (1, 80). Also, we know Andre hopes to save $30 a month. This means that the rate of change, or slope, is 30. We have a point and we have a slope – this is all we have to write a dot slope formula, so this is the form of linear equation that we will use. Remember, the form of slope point is .When we replace the point and slope of Andre, the equation becomes . Okay, now what? Well, we have a formula describing Andre's savings plan. We can use it to understand how long it will take to save all the money it needs to buy MP3 player. Remember, y in this equation represents the amount Andre saved, and x represents the number of months he saved. We want to find the value of x is when y is equal to 230. So we just have to set you equal to 230 in our equation, and solve for x. Example Problem y − 80 = 30(x − 1) 230 − 80 = 30(x − 1) 150 = 30x − 30 180 = 30x Response 6 = x The result is x = 6. It will take 6 months Andre to save the $230 needs to buy the MP3 player. WhyHe told us that we knew a point and a slope, we were able to choose the right form for the job of writing an equation. Once we wrote the equation, we were able to solve it for the variable we wanted to find. We have learned that linear equations can be written in different forms, depending on what we know or want to know about a line. The slope of the point, is useful in situations involving slope and the position of one or more points. The standard form, Ax + By = C, is usually easier to use when we need to make algebraic calculations. When needs or knowledge change, we can convert an equation from one form to another. another. slope intercept to standard form calculator. slope intercept to standard form converter. slope intercept to standard form worksheet. slope intercept to standard form converter calculator. slope intercept to standard form worksheet pdf. slope intercept to standard form equation calculator. slope intercept to standard form kuta. slope intercept to standard form steps

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