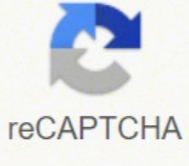




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Use the given conditions to write an equation for the line in point-slope form and in slope-intercept form.

Passing through (2, -3) and perpendicular to the line whose equation is $y = \frac{1}{2}x + 3$

SLOPE-INTERCEPT FORM

$$y = mx + b$$

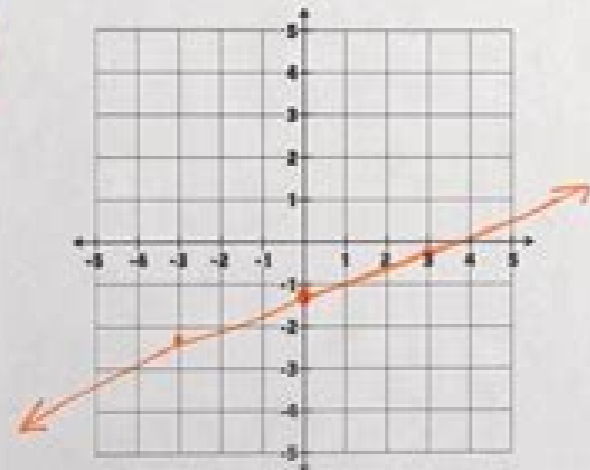
GRAPHING LINES

$$x - 3y = 4$$

$$-3y = -x + 4$$

$$y = \frac{1}{3}x - \frac{4}{3}$$

1. Rewrite the equation in slope intercept form.
2. Find the y-intercept.
3. Plot the y-intercept.
4. Use the slope to plot additional points.
5. Connect the points.



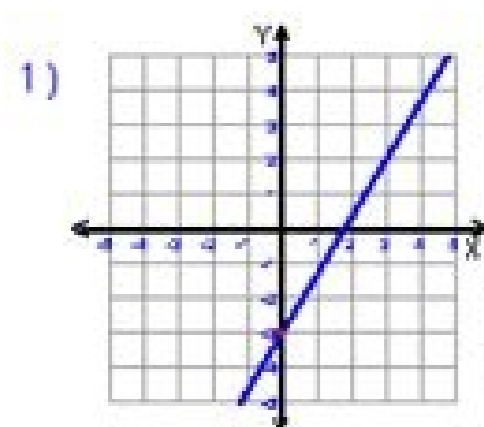
VERTICAL AND HORIZONTAL LINES

$$x = a \text{ OR } y = b$$

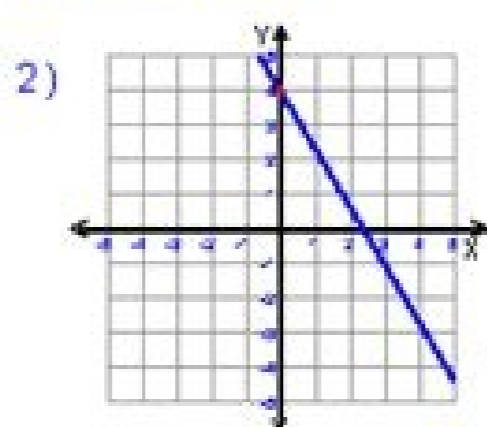
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Teacher : _____ Date : _____

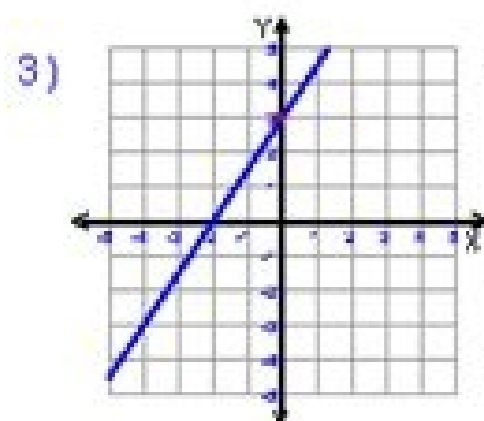
Sketch the Graph of Each Line



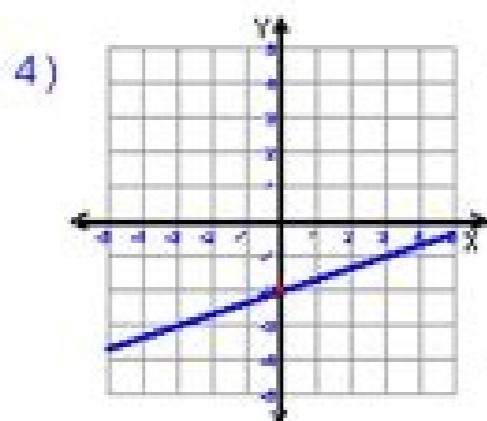
$-5x + 3y = -9$
slope = $\frac{5}{3}$
y-intercept = -3



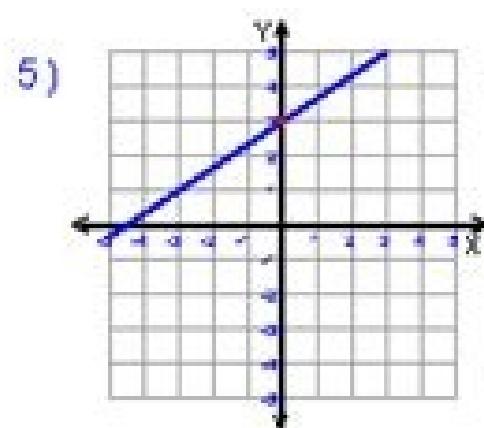
$5x + 3y = 12$
slope = $-\frac{5}{3}$
y-intercept = 4



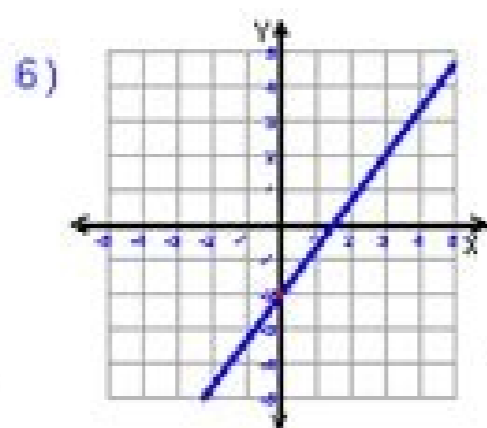
$-3x + 2y = 6$
slope = $\frac{3}{2}$
y-intercept = 3



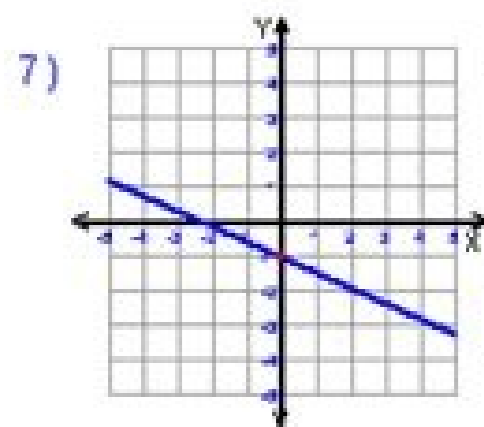
$-x + 3y = 6$
slope = $\frac{1}{3}$
y-intercept = -2



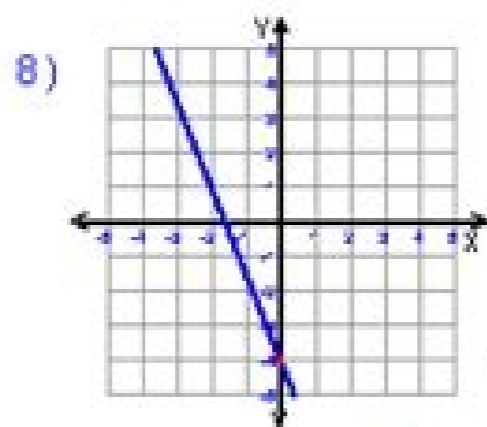
$-2x + 3y = 9$
slope = $\frac{2}{3}$
y-intercept = 3



$-4x + 3y = -6$
slope = $\frac{4}{3}$
y-intercept = -2

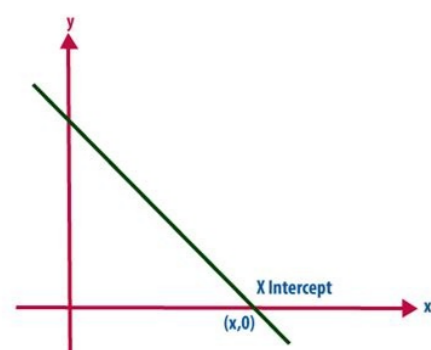


$4x + 9y = -9$
slope = $-\frac{4}{9}$
y-intercept = -1



$5x + 2y = -8$
slope = $-\frac{5}{2}$
y-intercept = -4

Math-Aids.Com



Point-slope formula, use $m = -5$ and one point on the line, $(1, 2)$ or $(3, -8)$

$$m = -5 \quad \text{point } (3, -8)$$

$$y - y_1 = m(x - x_1)$$

$\uparrow \quad \uparrow \quad \uparrow$
 $-8 \quad -5 \quad 3$

$$y - (-8) = -5(x - 3)$$
$$y + 8 = -5x + 15$$

$$y = -5x + 7$$

Equation of line $\rightarrow y = -5x + 7$

Write the point slope form of the equation of the line through the given points calculator. Use the given conditions to write an equation for the line in point-slope form calculator. Graphing a line given its equation in point slope form calculator. Equation of a line that passes through two points in point slope form calculator. Line equation from two points calculator point slope form. Write the equation of the line in point slope form calculator.

Apart from the stuff given above, if you need any other stuff in math, please use our google custom search here. Slope of Perpendicular Lines If you know the slope of a line, any line perpendicular to it will have a slope equal to the negative inverse of the known slope. Perpendicular means the lines form a 90° angle when they intersect. It is the point where the line crosses the y axis. At Put those values in the point slope format to get an equation of that line in point slope form: If you simplify the point slope equation above you get the equation of the line in slope intercept form. Find slope by finding the difference in the y points, and divide that by the difference in the x points. Slope Calculator Solutions Input two points using numbers, fractions, mixed numbers or decimals. Continue to work the equation so that y is on one side of the equals sign and everything else is on the other side. Lets use a point from the original example above $(2, 5)$, and the slope which we calculated as 7. Kindly mail your feedback to v4formath@gmail.com We always appreciate your feedback. Your goal is to get the equation into slope intercept format $y = mx + b$ Start with your equation $6x - 2y = 12$ Add $2y$ to both sides to get $6x = 12 + 2y$ Subtract 12 from both sides of the equation to get $6x - 12 = 2y$ You want to get y by itself on one side of the equation, so you need to divide both sides by 2 to get $y = 3x - 6$ This is slope intercept form, $y = 3x - 6$. What is the slope of the line perpendicular to it? When you have 2 points on a line on a graph the slope is the change in y divided by the change in x. Use either the point slope form or slope intercept form equation and work out the math to rearrange the equation into standard form. The calculator given in this section can be used to find the equation of a line when a point on the line and its slope are given. Let (x_1, y_1) be a point on the line and m be the slope of the line. Then, the formula to find the equation of a line is $y - y_1 = m(x - x_1)$. But, the above equation can be written in the general form as shown below. $ax + by + c = 0$ Stuff in math that can be found on that page. The difference between y coordinates Δy is The difference between x coordinates Δx is Divide Δy by Δx to find slope m ($m = \frac{\Delta y}{\Delta x}$) Line Equations with Slope There are 3 common ways to write line equations with slope: Point slope form Slope intercept form Standard form Point slope form is written as Using the coordinates of one of the points on the line, insert the values in the x_1 and y_1 spots to get an equation of a line in point slope form. If you a point that a line passes through, and its slope, this page will show you how to find the equation of the line. It is the point where the line crosses the x axis. Slope is the coefficient of x so in this case slope = 3 How to Find the y-intercept The y-intercept of a line is the value of y when $x=0$. [onlinemath4all.com Feb 07, 22 07:18 AM](#) Arithmetic Operations - Concept - Examples Read More Feb 05, 22 10:02 PM Arithmetic Progression and Geometric Progression Formulas Read More Feb 05, 22 09:59 PM Arithmetic and Geometric Sequences Worksheet Read More The equation of a line is typically written as $y=mx+b$ where m is the slope and b is the y-intercept. Note that the equation should not include fractions or decimals, and the x coefficient should only be positive. Example You have the equation of a line, $6x - 2y = 12$, and you need to find the slope. Using the equation $y = 3x - 6$, set $x=0$ to find the y-intercept. Slope of Parallel Lines If you know the slope of a line, any line parallel to it will have the same slope and these lines will never intersect. Add 5 to both sides of the equation to get the equation in slope intercept form: Standard form of the equation for a line is written as $Ax + By + C = 0$ in some references. The slope of a line is a measure of how steep it is. ©All rights reserved. How to Calculate Slope of a Line Calculate slope, m using the formula for slope: Slope Formula $m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$ Here you need to know the coordinates of 2 points on a line, (x_1, y_1) and (x_2, y_2) . Further Study Brian McLogan (2014) Determining the slope between two points as fractions, 10 June. The slope of a line is its vertical change divided by its horizontal change, also known as rise over run. First, take the negative of the slope of your line $-(-4) = 4$ Second, take the inverse of that number. The negative inverse of a slope of -4 is a slope of $1/4$. Slope intercept form: $y = 7x - 9$ Subtract y from both sides of the equation to get $7x - y - 9 = 0$ Add 9 to both sides of the equation to get $7x - y = 9$ Slope intercept form $y = 7x - 9$ becomes $7x - y = 9$ written in standard form. The coefficient of x will be the slope. The slope calculator shows the work and gives these slope solutions: Slope m with two points Graph of the line for $y = mx + b$ Point Slope Form $y - y_1 = m(x - x_1)$ Slope Intercept Form $y = mx + b$ Standard Form $Ax + By = C$ y-intercept, when $x = 0$ x-intercept, when $y = 0$ You will also be provided with a custom link to the Midpoint Calculator that will solve and show the work to find the midpoint and distance for your given two points. The inverse of $4/1$ is $1/4$. Find Slope From an Equation If you have the equation for a line you can put it into slope intercept form. Say you have a line with a slope of -4. How to Find Slope of a Line Find the difference between the y coordinates, Δy is change in y Find the difference between the x coordinates, Δx is change in x Divide Δy by Δx to find slope Example: Find the Slope Say you know two points on a line and their coordinates are $(2, 5)$ and $(9, 19)$. 4 is a whole number so its denominator is 1. Slope intercept form is written as Take the point slope form equation and multiply out 7 times x and 7 times 2. How to Find the x-Intercept The x-intercept of a line is the value of x when $y=0$. A line perpendicular to your original line has a slope of $1/4$. Using the equation $y = 3x - 6$, set $y=0$ to find the x-intercept.

Rules for Graphing Using Slope Intercept Form. Your y intercept is always the first point that you plot on the line. Your point will always be $(0, b)$. Then use your slope to plot your next point. If you have two points, you can draw a straight line and this is the line that represents your equation. Free slope intercept form calculator - find the slope intercept form of a line given two points, a function or the intercept step-by-step 10/10/2021 · To find the slope of a linear equation, start by rearranging the given equation into slope-intercept form, which is $y = mx + b$. In slope-intercept form, "m" is the slope and "b" is the y-intercept. The slope of the line is whatever number is multiplied on the "x" variable, so just solve the equation for "x" to figure out the slope! This online Two Point Slope Form Calculator helps you to find the equation of the straight line using the Two Point Form Method. Enter the values for X and Y co-ordinates for two points. This analytical method is used since it is a plane and not a slope, just the two sets of X and Y coordinates (x_1, y_1) and (x_2, y_2) are enough to calculate the equation of the straight line. Calculate the two point form equation by entering the values for x and y coordinates in a straight line. Point-slope is the general form $y - y_1 = m(x - x_1)$ for linear equations. It emphasizes the slope of the line and a point on the line (that is not the y-intercept). Watch this video to learn more about it and see some examples. Thus, the equation representing a line using slope-intercept form is the y value of a coordinate on the line is equal to the x value of the coordinate times m, plus the y-intercept b. For example, let's solve for b, given a slope of $1/2$ and a point $(5, 4)$. The equation of a line is typically written as $y = mx + b$ where m is the slope and b is the y-intercept. If you a point that a line passes through, and its slope, this page will show you how to find the equation of the line. Free printable worksheets with answer keys on linear equations including finding slope, slope intercept form, equation from 2 points, from 1 point and slope and more You may already be familiar with the " $y=mx+b$ " form (called the slope-intercept form of the equation of a line). It is the same equation, in a different form! The "b" value (called the y-intercept) is where the line crosses the y-axis. So point (x_1, y_1) is actually at $(0, b)$ and the equation becomes:

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