

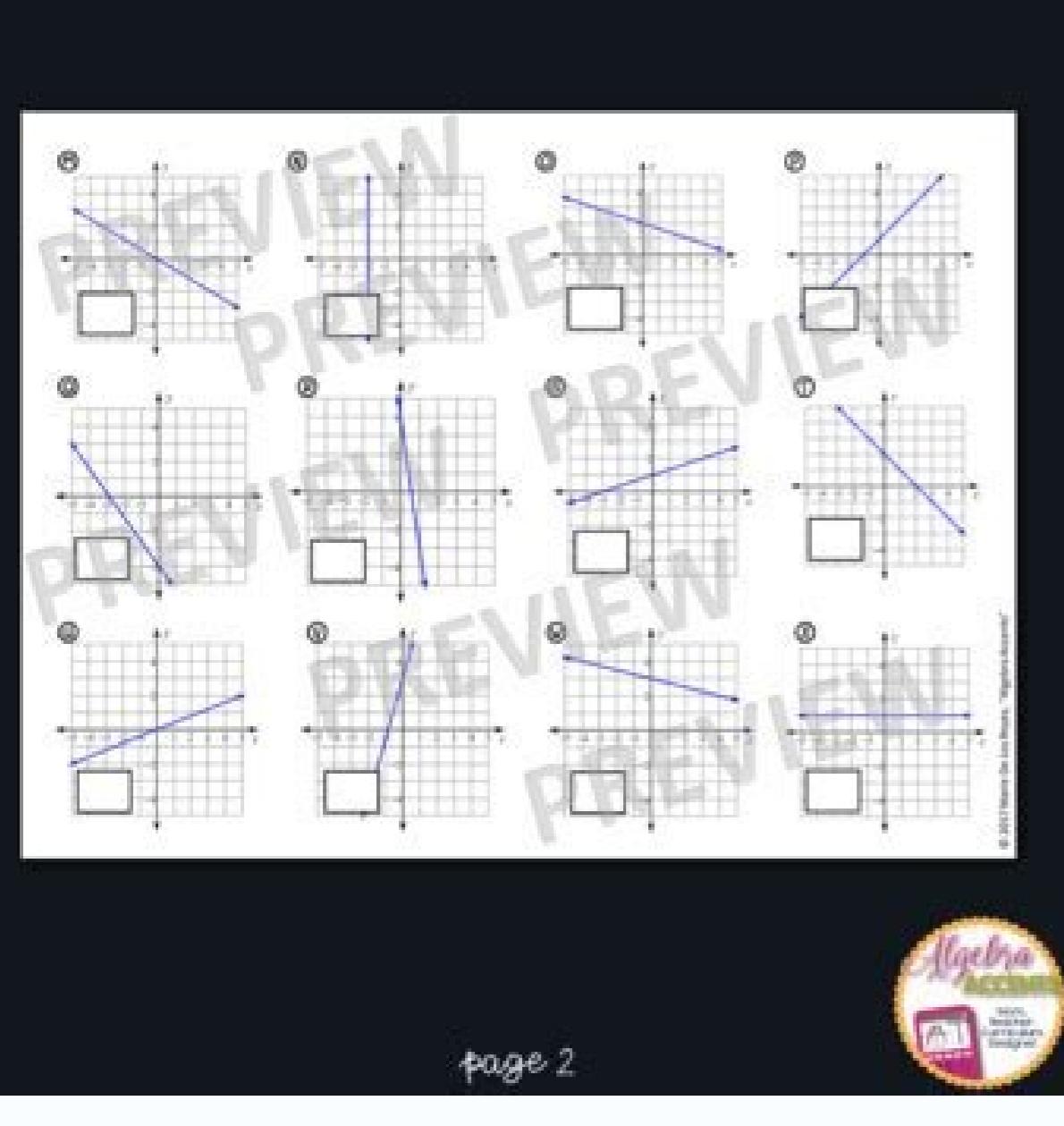
Slope intercept form of a linear equation

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Linear Equation Graphs (A)
Find the slope, y-intercept, x-intercept for each line.

slope: $y = \frac{1}{2}x + 2$ y-intercept: $(0, 2)$ x-intercept: $(-4, 0)$	slope: $y = x + 1$ y-intercept: $(0, 1)$ x-intercept: $(-1, 0)$
slope: $y = -2x + 4$ y-intercept: $(0, 4)$ x-intercept: $(2, 0)$	slope: $y = -2x + 2$ y-intercept: $(0, 2)$ x-intercept: $(1, 0)$

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WHAT IS SLOPE INTERCEPT FORM?

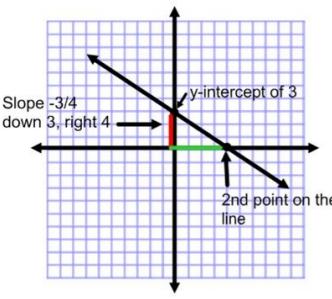
- It's a standard method for writing the equation of a line. It has two variables,
- X and y, and an unlimited number of "solutions" (the line is infinitely long).

Look at this graph.

What is the equation of the line in slope-intercept form?
Write your answer using integers, proper fractions, and improper fractions in simplest form.

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Slope intercept form of a linear equation worksheet. Slope intercept form of a linear equation example. Slope intercept form of a linear equation definition. Slope-intercept form of a linear equation is $y=mx+b$. Slope intercept form of a linear equation calculator. Slope-intercept form of a linear equation in two variables. Slope intercept form of a linear equation problem.

If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. What is slope-intercept form? This article is here to help! Read below to learn how to write equations in slope-intercept form. We'll also discover how to find slope-intercept form from two points, from a slope and a point, and from a graph. Additionally, we will see how to determine the x-intercepts and y-intercepts. Changing an equation into a certain form can help us to identify useful information. Just like we can change play-dough or clay from one shape to another, we can change equations to reveal the information we need. Let's learn more about slope-intercept form! What is slope-intercept form? The slope-intercept form of an equation is: Slope-Intercept Form $y=mx+b$ What is the b? The variable b represents the y-intercept. This is where the line crosses the y-axis. What is the m? The variable m represents the slope. Remember, slope of a linear equation is often described as $\frac{\text{rise}}{\text{run}}$. For more info on slope, visit our review article on how to find slope. Start practicing Algebra 1 on Albert now! Return to the Table of Contents Slope-intercept equation from two points (example) To determine how to write an equation from two points, we must determine the value of the slope and the y-intercept. First, we will calculate the slope. This will be the value of m in the slope-intercept form equation: $y=mx+b$ Let's answer the question, "What is the slope-intercept form of a line going through the points (1,5) and (-4,7)?" Remember, to calculate the slope we use the formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$. First, we can label the points. Now, we can substitute the values into the slope equation: $m = \frac{7 - 5}{-4 - 1} = \frac{2}{-5} = -\frac{2}{5}$. Therefore, the slope of the line is $m = -\frac{2}{5}$. We can substitute $m = -\frac{2}{5}$ for m, $y = mx + b$ becomes $y = -\frac{2}{5}x + b$. Now, we must determine the value of b. To do so, we will use one point and substitute the values of x and y. Let us use the point (1,5). We will substitute 1 for x and 5 for y, $5 = -\frac{2}{5}(1) + b$, which is the y-intercept. We will now substitute $b = \frac{27}{5}$ for b. $y = -\frac{2}{5}x + \frac{27}{5}$. For an additional example of writing an equation from two points, watch the video below: Return to the Table of Contents Slope-intercept equation given slope and y-intercept (example) Instead of being given two points, we may need to know how to find slope-intercept form with slope and the y-intercept. In this example, we will use a slope of -4 and a y-intercept of $\frac{1}{5}$. Remember, the slope is represented by m and the y-intercept is represented by b. We will simply substitute the given values for m and b. We start with the formula: $y = mx + b$. $y = -4x + \frac{1}{5}$. Explore Albert school licenses! Return to the Table of Contents Find slope-intercept equation from graph (example) Similarly, when we need to know how to write slope-intercept form from a graph, we determine the slope and the y-intercept. When presented with a graph, we must first determine two points on the grid lines and identify those points. For our graph, we will use the points (1,1) and (0,-2). Now, we determine the rise and the run. The slope is $\frac{\text{rise}}{\text{run}}$. For us, the rise is how far up we must travel to get from (0,-2) to get to (1,1). The run is how far to the right we must travel to get from (0,-2) to get to (1,1). Let us determine these values by counting on the graph. The rise, the vertical change shown in blue, is 3. The run, the horizontal change shown in green, is 1. Therefore, the slope is $\frac{3}{1}$. The y-intercept is where the line crosses the y-axis, the vertical axis. In this case, the line crosses the y-axis at the point (0,-2), so the y-intercept is -2. Because the slope is 3 and the y-intercept is -2, we will substitute 3 for m and -2 for b to create the slope-intercept form of the equation: $y = mx + b$ $y = 3x - 2$. If you're a visual learner, below is a brief video example of writing a slope-intercept equation from a graph: Return to the Table of Contents Calculate x and y intercepts from slope-intercept form (example) Consider the slope-intercept form equation $y = mx + b$. We can determine the x and y-intercepts. The x-intercept occurs when y equals 0, and the y-intercept occurs when x equals 0. We can determine the x-intercept by setting the value of y equal to 0. $0 = mx + b$ $x = -\frac{b}{m}$. Therefore, the x-intercept of the equation is $x = -\frac{b}{m}$. This means the graph will cross the x-axis when x equals $-\frac{b}{m}$. The y-intercept occurs when x equals 0. We can determine the y-intercept by setting the value of x equal to 0. $y = mx + b$ $y = b$. Therefore, the y-intercept of the equation is $y = b$. Explore Albert school licenses! Return to the Table of Contents Other forms of linear equations Linear equations can also be written in point-slope form, determined by one point on the line and the slope of the line. To learn more, read our detailed review article on point-slope form. Point-Slope Form $y - y_1 = m(x - x_1)$ A linear equation can also be written in standard form. This form can be very useful to solve systems of equations. To learn more, read our review guide on standard form of linear equations. Return to the Table of Contents Remember, slope-intercept form is: $y = mx + b$. We have determined slope-intercept form using a graph, using a point and a slope, and using two points. We have also found x and y-intercepts from an equation in slope-intercept form. Looking for video summary of this content? Checkout this helpful 5-minute video explanation of slope-intercept form. Click here to explore more helpful Albert Algebra 1 review guides. Return to the Table of Contents If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Earlier in this chapter we have expressed linear equations using the standard form $Ax + By = C$. Now we're going to show another way of expressing linear equations by using the slope-intercept form $y = mx + b$. In the slope-intercept form you use the slope of the line and the y-intercept to express the linear function. $y = mx + b$ Where m is the slope and b is the y-intercept. Example Graph the equation $y = 2x + 1$ rewrite in slope-intercept form $y = 2x + 1$. Identify the slope and the y-intercept $m = 2$ and $b = 1$. Plot the point corresponding to the y-intercept, (0,1). The m-value, the slope, tells us that for each step to the right on the x-axis we move 2 steps upwards on the y-axis (since $m = 2$). And once you have your second point you can just draw a line through the two points and extend it in both directions. You can check to see that the line you've drawn is the correct one by substituting the coordinates of the second point into the original equation. If the equation holds true then the second point is correct. Our second point is (1, 3). $y = 2x + 1$ $3 = 2(1) + 1$ $3 = 2 + 1$ $3 = 3$. Our second point is a solution to the equation i.e. the line we drew is correct. A line that passes through the origin has a y-intercept of zero, $b = 0$, and represents a direct variation. $y = mx$. In a direct variation the nonzero number m is called the constant of variation. You can name a function, f, by using the function notation $f(x) = mx + b$. $f(x)$ is another name for y and is read as "the value of f at x" or "f of x". You can use other letters than f to name functions. A group of functions that have similar characteristics are called a family of functions. All functions that can be written on the form $f(x) = mx + b$ belong to the family of linear functions. The most basic function in a family of functions is called the parent function. The parent function of all linear functions is $f(x) = mx + b$. Video lesson Graph $y = 3x - 2$

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