

4 2 writing equations in point slope form

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Writing Equations in Point-Slope Form**

How do you put an equation in point slope form?

Point-slope form is an equation of a line that uses a known point and the slope of the line. The formula is:

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

where:

- (x_1, y_1) is a known point on the line
- m is the slope of the line

How to write a slope equation with two points?

To find the slope given two points, use the formula:

$$m = (y_2 - y_1) / (x_2 - x_1)$$

where:

- (x_1, y_1) and (x_2, y_2) are the two points

How do you write an equation in slope?

Once you have the slope and a point, you can write the equation in point-slope form:

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

Substitute the known values and simplify.

Which equation is written in point slope form?

An equation in the form:

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

What is point-slope form for dummies?

Point-slope form gives you the equation of a line based on a point on the line and its slope. It's useful for finding the equation of a line when you don't know the y-intercept.

Writing Equations in Slope-Intercept Form

How do you write an equation in slope intercept form with a given point?

Slope-intercept form is an equation of a line that has a y-intercept (the point where the line crosses the y-axis) and a slope (the rate of change). The formula is:

$$y = mx + b$$

where:

- m is the slope
- b is the y-intercept

What is the formula for two point slope form?

The formula for two-point slope form is:

$$y - y_1 = (y_2 - y_1) / (x_2 - x_1) * (x - x_1)$$

What is the formula for slope example?

The formula for slope is:

$$m = (y_2 - y_1) / (x_2 - x_1)$$

Graphing Point-Slope Form

How do you graph point slope form with two points?

To graph an equation in point-slope form, use the following steps:

1. Plot the given point (x_1, y_1) .
2. Use the slope (m) to find a second point on the line.
3. Draw a line connecting the two points.

Writing Equations in Standard Form

How do you write an equation in standard form with slope?

Standard form is an equation of a line that has the form:

$$Ax + By = C$$

where:

- A, B, and C are integers
- A is not equal to 0

How to rewrite an equation in slope-intercept form?

To rewrite an equation in slope-intercept form, solve it for y :

$$y = mx + b$$

Solving for Slope

How is slope written in math?

Slope is written as a ratio:

$$m = (y_2 - y_1) / (x_2 - x_1)$$

How to find slope with 2 points?

Use the formula for slope:

$$m = (y_2 - y_1) / (x_2 - x_1)$$

What is the 2 point form?

Two-point form is a way to write the equation of a line using two points on the line:

$$y - y_1 = (y_2 - y_1) / (x_2 - x_1) * (x - x_1)$$

Finding the Equation of a Line

How do you find the equation of a line?

To find the equation of a line, you need either:

- A point and the slope
- Two points on the line

Writing Equations in Slope Form

How to write an equation for slope?

To write an equation for a line given its slope and a point, use the point-slope form:

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

Finding an Equation When Given a Point and Slope

How to find an equation when given a point and slope?

Use the point-slope form:

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

Substitute the known values and simplify.

Examples of Slope-Intercept Form

What is an example of slope-intercept form?

$$y = 2x + 5$$

Writing Equations in Standard Form with Two Points

How do you write an equation in standard form with two points?

Use the following formula:

$$(y - y_1) / (x - x_1) = (y_2 - y_1) / (x_2 - x_1)$$

Writing Two Points in Slope-Intercept Form

How do you write two points in slope-intercept form?

Convert the points to slope-intercept form using the formula:

$$y = mx + b$$

Writing an Equation for a Line with Two Points

How to write an equation for a line with two points?

Use the following formula:

$$y - y_1 = (y_2 - y_1) / (x_2 - x_1) * (x - x_1)$$

Converting Slope-Intercept Form into Point-Slope Form

How to turn slope-intercept form into point-slope form?

Subtract the y-intercept from both sides of the equation:

$$y - b = mx$$

Converting Point-Slope Form into Standard Form

What is the point-slope formula for a graph?

The point-slope formula is:

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

How to find the slope from an equation?

If the equation is in slope-intercept form, the slope is the coefficient of x.

$$y = mx + b$$

Writing an Equation in Standard Form

How to write an equation in standard form?

Rearrange the equation so that it has the form: _____

$$Ax + By = C$$

Converting to Slope-Intercept Form

How to make point slope into standard form?

Subtract the y-intercept from both sides of the equation.

Converting to General Form

How to convert to slope-intercept form?

Solve the equation for y.

How to convert an equation to general form?

Rearrange the equation so that it has the form:

$$Ax + By + C = 0$$

Examples of Point-Slope Form

What is an example of a point slope form?

$$y - 2 = 3(x + 1)$$

Examples of Slope-Intercept Form

What is an example of a slope-intercept form?

$$y = -2x + 5$$

Formulas for Slope

What are the three formulas for slope?

- **Slope between two points:** $m = (y_2 - y_1) / (x_2 - x_1)$
- **Slope from slope-intercept form:** $m = \text{the coefficient of } x$
- **Slope from standard form:** $m = -A / B$

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