

Slope intercept form calculator with 3 points

I'm not robot!

Example: The Equation of a Line

Determine the equation of the line passing through $(-2, -3)$ and $(4, -2)$. Write the linear equation in slope-intercept form.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - (-3)}{4 - (-2)}$$

$$= \frac{-2 + 3}{4 + 2} = \frac{1}{6}$$

$$y = mx + b$$

$$y = \frac{1}{6}x + b$$

Using $(4, -2)$

$$-2 = \frac{1}{6}(\frac{4}{1}) + b$$

$$-2 = \frac{2}{3} + b$$

Write in Standard Form:

(when given slope and point on line)

$$m = \frac{1}{3} \text{ and } (4, -1) \quad Ax + By = C$$

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

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

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

Standard Form to Slope-Intercept Form

$$3x + 5y = 15 \quad \text{Solve for } y!$$

$$5y = -3x + 15$$

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

Slope-Intercept Form to Standard Form $Ax + By = C$

$$y = -\frac{7}{5}x + 3 \quad \text{Add or Subtract } mx \text{ from both sides.}$$

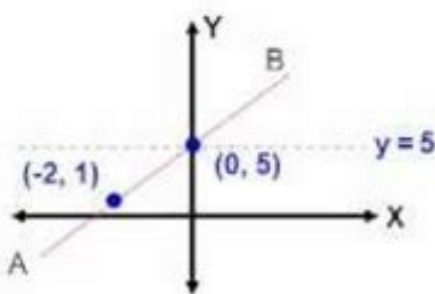
$$5(\frac{7}{5}x + y = 3) \quad \text{No fractions or decimals}$$

$$7x + 5y = 15$$

$$y = \frac{3}{2}x + 7 \quad \text{Multiply to eliminate denominators.}$$

$$-3x + 2y = 14 \quad 3x - 2y = -14$$

Slope-intercept Form - Example



- $(0, 5), (-2, 1)$
- slope $m = \frac{(5 - 1)}{(0 + 2)} = 2$

How to find slope intercept form with 3 points. How to find slope intercept form with 4 points.

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Find the slope intercept form of a line given two points, a function or the intercept step-by-step

Slope-Intercept Form

The slope intercept form of a line is $y = mx + b$. The slope m is the change in y divided by the change in x . The y -intercept b is the y -coordinate of the point where the line crosses the y -axis.

Standard Form

The standard form of a line is $Ax + By = C$. The x -intercept is $\frac{C}{A}$ and the y -intercept is $-\frac{C}{B}$.

Point-Slope Form

The point-slope form of a line is $y - y_1 = m(x - x_1)$. The (x_1, y_1) is a point on the line and m is the slope.

Two-Point Form

The two-point form of a line is $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$. The (x_1, y_1) and (x_2, y_2) are two points on the line.

How to Find Slope Intercept Form

1. Find the slope m using the formula $m = \frac{y_2 - y_1}{x_2 - x_1}$.

2. Find the y -intercept b by substituting one of the points into the slope intercept form equation $y = mx + b$.

3. Write the equation in slope intercept form $y = mx + b$.

How to Find Standard Form

1. Find the slope m and y -intercept b .

2. Write the equation in slope intercept form $y = mx + b$.

3. Multiply both sides by the least common denominator to eliminate fractions.

4. Rearrange the equation so that the x and y terms are on one side and the constant is on the other side.

5. Write the equation in standard form $Ax + By = C$.

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