

Slope intercept form calculator with 3 points

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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)

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

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

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

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

$$y = \frac{1}{3}x - \frac{7}{3}$$

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 $Ax + By = C$

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

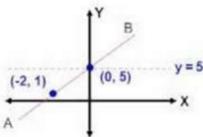
$$5(\frac{7}{5}x + y = 3) \quad \text{No fractions or decimals}$$

$$7x + 5y = 15$$

$$y = \frac{3}{5}x + 7 \quad \text{Multiply to eliminate denominators.}$$

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

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 equation of a line passing through two points (x_1, y_1) and (x_2, y_2) is given by the slope-intercept form $y = mx + b$. The slope m is calculated as $m = \frac{y_2 - y_1}{x_2 - x_1}$. The y-intercept b is found by substituting one of the points into the equation $y = mx + b$ and solving for b .

Standard Form

The standard form of a line is $Ax + By = C$, where A , B , and C are integers, and A and B are not both zero. To convert from slope-intercept form to standard form, multiply both sides of the equation by the denominator of the slope and the y-intercept, then rearrange the terms.

Point-Slope Form

The point-slope form of a line is $y - y_1 = m(x - x_1)$, where (x_1, y_1) is a point on the line and m is the slope. This form is useful for finding the equation of a line when you know a point and the slope.

Two-Point Form

The two-point form of a line is $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$, where (x_1, y_1) and (x_2, y_2) are two points on the line. This form is useful for finding the equation of a line when you know two points.

Three-Point Form

The three-point form of a line is $\frac{(y - y_1)(y_2 - y_3) + (y - y_2)(y_3 - y_1) + (y - y_3)(y_1 - y_2)}{(x - x_1)(x_2 - x_3) + (x - x_2)(x_3 - x_1) + (x - x_3)(x_1 - x_2)} = 0$, where (x_1, y_1) , (x_2, y_2) , and (x_3, y_3) are three points on the line. This form is useful for finding the equation of a line when you know three points.

Four-Point Form

The four-point form of a line is $\frac{(y - y_1)(y_2 - y_3)(y_4 - y_5) + (y - y_2)(y_3 - y_4)(y_5 - y_1) + (y - y_3)(y_4 - y_5)(y_1 - y_2) + (y - y_4)(y_5 - y_1)(y_2 - y_3) + (y - y_5)(y_1 - y_2)(y_3 - y_4)}{(x - x_1)(x_2 - x_3)(x_4 - x_5) + (x - x_2)(x_3 - x_4)(x_5 - x_1) + (x - x_3)(x_4 - x_5)(x_1 - x_2) + (x - x_4)(x_5 - x_1)(x_2 - x_3) + (x - x_5)(x_1 - x_2)(x_3 - x_4)} = 0$, where (x_1, y_1) , (x_2, y_2) , (x_3, y_3) , (x_4, y_4) , and (x_5, y_5) are four points on the line. This form is useful for finding the equation of a line when you know four points.

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