

**FIND THE SLOPE OF THE LINE THAT PASSES  
THROUGH THE POINTS**

Walter Sidney

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**Worked example: slope from two points (video) | Khan Academy**

We will use the formula to calculate the slope of the line passing through the points  $(3,8)$  and  $(-2, 10)$ . Input the values into the.

**What is the slope of the line that passes through the points  $(1,1)$  and  $(-1,-5)$ ? | Socratic**

Let's use the examples in the last lesson We'll use the first one to find a formula. the graph of a line passing through the points  $(-2, -1)$ , We'll use the letter  $m$ .

**How do you find the slope of the line that passes through the points  $(5,-1)$ ,  $(-2,-1)$ ? | Socratic**

To calculate the slope of a line you need only two points from that line,  $(x_1, y_1)$  and  $(x_2, y_2)$ . to calculate slope. Take a moment to work through an example where we are given two points. We get the same answer as before! Often you will.

**How do you find the slope of the line passing through points (2,1) and (-7,4)? | Socratic**

where  $m$  represents the slope and  $(x_1, y_1), (x_2, y_2)$  2 points on the line. Here the 2 points are  $(2, 1)$  and  $(-7, 4)$ . let  $(x_1, y_1) = (2, 1)$  and  $(x_2, y_2) = (-7, 4)$ .

**Find the Equation of a Line Given That You Know Two Points it Passes Through - WebMath**

Explanation: to calculate the slope  $m$  use the gradient formula.  $m = \frac{y_2 - y_1}{x_2 - x_1}$ . let  $(x_1, y_1) = (0, 0)$  and  $(x_2, y_2) = (10, 30)$ .  $m = \frac{30 - 0}{10 - 0} = 3$ .

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Or another way you could say it, you could take your ending y-value and subtract from that your starting y-value and you get You can start with 4,3 or with 1,2 and, either way, you end with the exact same number! So whatever of these work for you, let's actually figure out the slope of the line that goes through these two points.

Whenever the run of a line is zero, the slope is undefined. The midpoint is an important concept in geometry, particularly in applications such as inscribing a polygon inside another polygon with the vertices touching the midpoint of the sides. We can choose any point on the line for  $x_1$  and  $y_1$  so let's just use point 2, So let's do it both ways. So the line will keep going. The distance calculator will compute which side calculations in finding the slope are simple and involves nothing more than basic subtraction and division. And now notice, it's downward sloping.