All we need are:

- . slope
- · y-intercept

If we are given two points, (5, 1) and (8, 10)

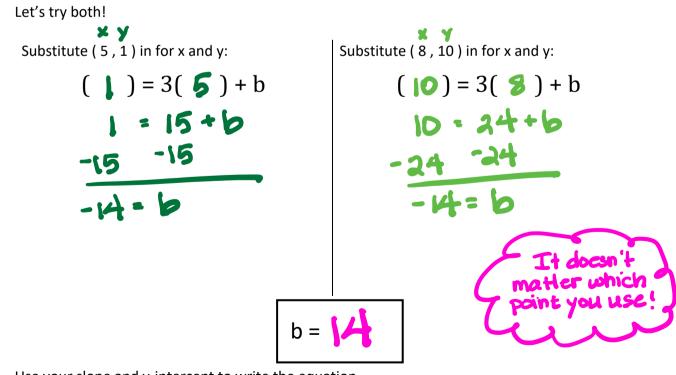
**1.** Find the slope between the points:



2. Substitute the slope into the Slope-Intercept equation:

**3.** We now need to find the value of "b". We know how to solve for a variable, but what makes this difficult is that we have **3** variables at the moment.

Fortunately we have **2** solutions for this equation and they are the two points on the line! Let's substitute in a point (x, y) and then solve for "b".



**4.** Use your slope and y-intercept to write the equation.