

## Type III - - Given Slope & a Point

when this happens, you can't use  $y = mx + b$   
so you should use  $y - y_1 = m(x - x_1)$

Label your point  $(x_1, y_1)$  and use the given slope.

ex

Slope =  $-\frac{3}{5}$  and goes through the point  $(-4, 2)$

First Label

Then substitute into  $y - y_1 = m(x - x_1)$

$$y - 2 = -\frac{3}{5}(x - -4)$$

Equation

$$y - 2 = -\frac{3}{5}(x + 4)$$