

Lesson 10.2 :

Graphing Linear equations in two Variables.

1. Find the ~~y-intercept~~ ^y and ~~x-intercept~~ ^x of the following linear equation.

$$9x - 5y = -45$$

$$9(0) - 5y = -45$$

$$\frac{5y}{5} = \frac{-45}{5}$$

$$9x - 5(0) = -45$$

$$\frac{9x}{9} = \frac{-45}{9}$$

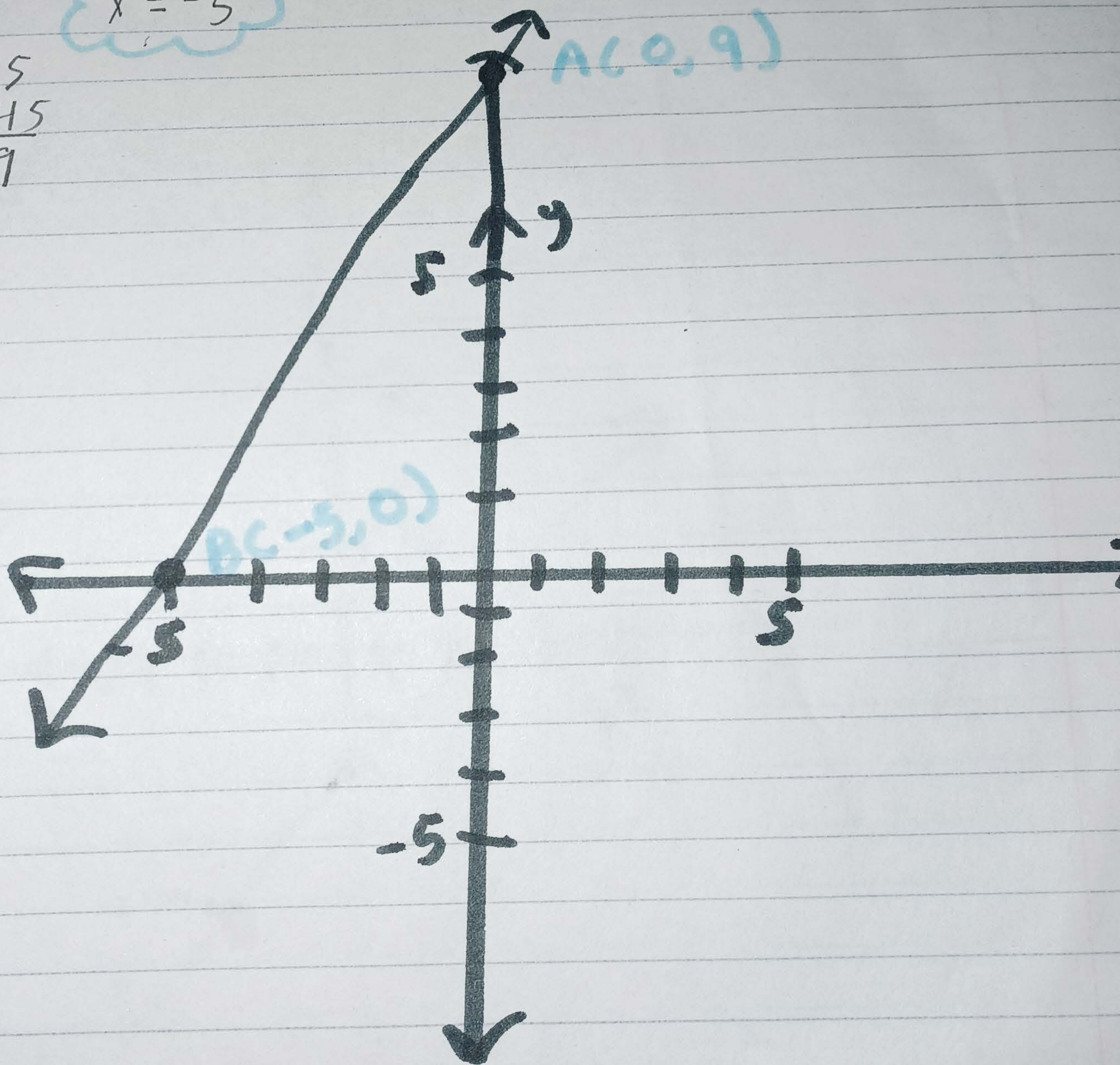
$$y = 9$$

$$x = -5$$

① Plug in 0 for x

② Solve for y

③ Divide by 5



y-intercept (A): (0, 9)

x-intercept (B): (-5, 0)