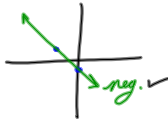


August 31, 2016
 * Math Jam Fridays
 start this week!

Aug 31-10:58 AM

#17) $(x_1, y_1) = (-3, 2)$ & $(x_2, y_2) = (0, -1)$

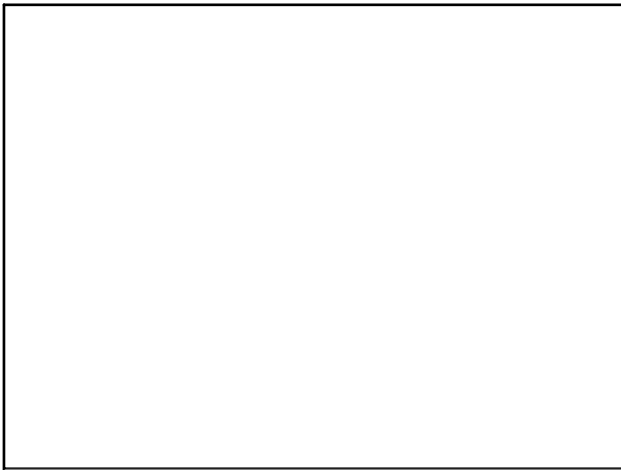


① $m = \frac{-1 - 2}{0 - (-3)} = \frac{-3}{3} = -1$

② $y - y_1 = m(x - x_1)$
 $y - (-2) = -1(x - (-3))$
 $y - 2 = -1(x + 3)$
 $y - 2 = -x - 3$
 $y + 2 = -x - 3$

$x + y = -1$

Aug 31-11:14 AM



Aug 31-11:42 AM

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{(-1) - (2)}{(0) - (-3)} = \frac{(-1) + (-2)}{0 + 3} = \frac{-3}{3} = -1$$

Aug 31-11:17 AM

$$y - \frac{3}{7} = -\frac{3}{7}(x + \frac{1}{2})$$

56

$$y - \frac{3}{7} = -\frac{3}{7}x - \frac{3}{14}$$

$$56y - 24 = -42x - 21$$

$42x + 56y = 3$

Aug 31-11:24 AM

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

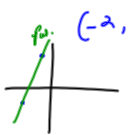
$$y + 5 = \frac{3}{5}x - \frac{6}{5}$$

$$5y + 25 = 3x - 6$$

$$-1(-3x + 5y = -31)$$

$3x - 5y = 31$

Aug 31-11:42 AM



$(-2, 8)$ & $(-5, -3)$

$$m = \frac{(-3) - (8)}{(-5) - (-2)}$$
$$= \frac{-11}{-3} = \frac{11}{3}$$
$$y - 8 = \frac{11}{3}(x + 2)$$
$$y - 8 = \frac{11}{3}x + \frac{22}{3}$$
$$3y - 24 = 11x + 22$$
$$-11x + 3y = 46$$
$$11x - 3y = -46$$
$$11(-5) - 3(-3) = -46$$
$$-55 + 9 = -46$$
$$-46 = -46 \checkmark$$

Aug 31-11:45 AM