> TODAY'S AGENDA: Feb. 4th - 8th

- Continue working on Khan Academy
- Mission: Engage NY Module 4
  > Intecepts of a Line from an Equation

- Today's Objective:
  > Students will be able to determine the Intercepts of of a Line

- Today's Standards:
  > CCSS Math: 8.EE.C.7, 8.EE.C.7b, 8.F.A.3, HSF.IF.C.7, HSF.IF.C.7a

Intercepts from an Equation

x-Intercept (x , 0)

y-Intercept (0 , y)

$y = mx + b$

slope

y-intercept

$y = 3x + 4$

(0, 4)

Determine the intercepts of the line.

$9x - 7y = 14$

x-intercept: $(14/9, 0)$

y-intercept: $(0, -2)$

$9x-7y=14$
$9x-7(0)=14$
$9x-0=14$
$\frac{9x}{9} = \frac{14}{9}$
$x = 14/9$

$9x-7y=14$
$9(0)-7y=14$
$0-7y=14$
$\frac{-7y}{-7} = \frac{14}{-7}$
$y=-2$

06_Khan Work-Intercepts from an Equation.notebook

Determine the intercepts of the line.

$y = 11x + 6$

x-intercept: $(-6/11, 0)$

y-intercept: $(0, 6)$

$y = 11x + 6$

$0 = 11x + 6$

$-6 \quad -6$

$\frac{-6}{11} = \frac{11x}{11}$

$x = -6/11$

Determine the intercepts of the line.

$-4x + 7y = 3$

x-intercept: $(-3/4, 0)$

y-intercept: $(0, 3/7)$

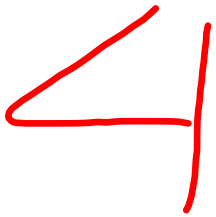
$\frac{-3}{4} = \frac{3}{-4} = -\frac{3}{4}$

$-4x+7y=3$
$-4x+7(0)=3$
$-4x+0=3$
$\frac{-4x}{-4} = \frac{3}{-4}$
$x = -3/4$

$-4x+7y=3$
$-4(0)+7y=3$
$0+7y=3$
$\frac{7y}{7} = \frac{3}{7}$
$y = 3/7$

Determine the intercepts of the line.

$4x - 1 = 3y + 5$



x-intercept: $\left(\square, \square\right)$

y-intercept: $\left(\square, \square\right)$

06_Khan Work-Intercepts from an Equation.notebook