- > TODAY'S AGENDA:
- Continue working on Khan Academy
- Mission: Engage NY Module 4
  - > Systems of Equations with Elimination
- Today's Objective:
  - > Students will be able to graph a line, given the equation of the line in Slope-Intercept Form
- Today's Standards:
  - > HSA.REI.C.6

## Solutions to System of Equations

- What is a System of Equations?
  - > A System of Equations is a group of two or more equations.
- What is the Solution to a System of Equations?
  - > The solution is the point(s) (as coordinates in (x,y) form) that make the equations true.

$$10y + 7x = 29$$

$$-10y - 18x = 4$$

$$-5y - 9x = 2$$

$$x = -3$$

$$y = 5$$

$$-5x - 2$$

$$x = -3$$

$$-5x - 2$$

$$-5x - 2$$

$$-5x - 2$$

$$-5x - 2$$

$$-6y + 11x = -36$$

$$-4y + 7x = -24$$

$$x = \bigcirc$$

$$y = \boxed{-6}$$

$$2(-6y+1|x=-36)$$

$$-3(-4y+7x=-24)$$

$$-12x+22x=-72$$

$$y^{2}y-21x=72$$

$$X = 0$$

$$-6y + 11(0) = -36$$

$$-6y = -36$$

$$-4y = -36$$

$$-6$$

$$-6$$

$$3y + 10x - 54 = 0$$

$$5y - 2x - 34 = 0$$

$$x = 3$$

$$y = \bigcirc$$

$$3y+10x-54=0$$

$$5(5y-2x-34=0)$$

$$25y-10x-170=0$$

$$28y -224=0$$

$$+224 +224$$

$$28y=224$$

$$78 = 28$$

$$y=8$$

$$3(8)+10x-54=0$$

$$24+10x-54=0$$

$$10x-30=0$$

$$+30=430$$

$$X=3$$

$$10x=30$$

$$100x=30$$

$$10y - 11x = -4$$

$$-2y + 3x = 4$$

$$x =$$

$$y =$$

$$|0y-1|x = -4 
5(-2y+3x = 4) 
 -|0y+15x = 20$$

$$|4x = 16 
 |x = 4$$

$$0y - 1/(4) = -4$$
 $10y - 44 + 44$ 
 $10y = 40$ 
 $10y = 40$