- > TODAY'S AGENDA:
- Continue working on Khan Academy
- Mission: Engage NY Module 4
 - > Systems of Equations with Substitution
- Today's Objective:
 - > Students will be able to graph a line, given the equation of the line in Slope-Intercept Form
- Today's Standards:
 - > 8.EE.C.8, 8.EE.C.8b, 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.

Solve the system of equations.

$$2x - 9y = 14$$

$$x = (-6y + 7)$$

$$y = (-6y + 7)$$

$$-(-6y + 7)$$

$$-(-6y + 7)$$

$$-(-2)y + 14$$

$$-(-6y + 7)$$

$$-(-2)y + 14$$

$$-(-6y + 7)$$

$$-(-2)y + 14$$

Solve the system of equations.

$$8x + 5y = 24 \qquad 8x + 5 (4x) = 2$$

$$y = -4x \qquad 8x - 20x = 24$$

$$x = -2 \qquad -12x - 24$$

$$y = 8 \qquad 72 - 12$$

$$y = 8 \qquad 72 - 12$$

Solve the system of equations

$$15x + 31y = -3$$

$$x \neq -y+3$$

$$x = \bigcirc$$

$$y = \boxed{-3}$$

$$x = -y + 3$$
 $-(-3) + 3$
 $= +3 + 3$
 $y = 6$

$$-15y+45+31y=-3$$

Solve the system of equations.

Solve the system of equations.

$$-4x + 7y = 20$$
 $-4x + 7 = 20$
 $y = 3x + 15$ $-4x + 21x + 105 = 20$
 $x = -5$ $17x + 105 = 20$
 $y = 0$ $17x + -85$
 $y = 3(-5) + 15$ $17x + -85$
 $y = 0$ $17x + -85$