- > 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.

Systems of Equations with Elimination

Get vid of

Solve the system of equations.  $2\sqrt{-3}$ 

$$2y - 3x = -27$$

$$5y + 3x = 6$$

$$x = \frac{1}{3}$$

$$y =$$

$$\frac{2y-3x=-27}{5y+3x=6}$$
 $\frac{7y=-21}{7}$ 
 $\frac{4}{7}$ 

$$2(-3) - 3x = -7$$

$$-6 - 3x = -7$$

$$-16 - 3x = -1$$

$$-3x = -1$$

$$-3 - 3$$

$$1 = -3$$

$$1 = -3$$

Solve the system of equations.

Solve the system of equations.

$$2y + 7x = -5$$

$$5y - 7x = 12$$

$$x = \boxed{-1}$$

$$y = \boxed{1}$$

$$\frac{2(1)+7x=-5}{2+7x=-5}$$

$$\frac{2(1)+7x=-5}{-2}$$

$$\frac{2(1)+7x=-5}{-2}$$

Solve the system of equations.