> TODAY'S AGENDA:

- Continue working on Khan Academy
- Mission: Engage NY Module 4
  > Solutions to Systems of Equations

- 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, HSA.REI.D.11

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.

$$y = -4x - 5$$

$$y = 3x - 2$$

Is $(3, 7)$ a solution of the system?

x y

Choose 1 answer:

_____

(A) Yes

_____

(B) No

① Plug in given solution into each given equation.

② If 1st equation is FALSE, the given point is not a solution to the system.

② If equation 1 is TRUE, plug coordinate into equation 2.

$y = 4x - 5$

$y = 2x + 3$

Is $(4, 11)$ a solution of the system?

Choose 1 answer:

A. Yes

B. No

$$y = 2x + 3$$

$$11 = 2(4) + 3$$

$$8 + 3$$

$$11 \checkmark$$

$$2x - 3y = -5$$

$$4x - 4y = -4$$

Is $(2, 3)$ a solution of the system?

Choose 1 answer:

(A) Yes

(B) No

$$1 - 4(3) = -4$$

$$8 - 12$$

$$-4 \checkmark$$

$$Z - 3x - 8y = -8$$

$$y = 2 - x$$

Is $(0, 1)$ a solution of the system?

Choose 1 answer:

(A) Yes

(B) No