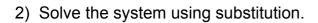
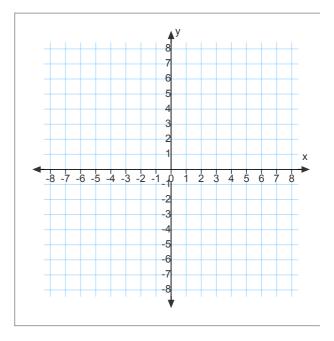
WARM UP

1) Solve the system of inequalities by graphing.

$$y \le -4x$$
$$y - 5 \le -|x+1|$$



$$-2x + y = 7$$
$$2x = 42 - 6y$$



QUIZ TODAY



- Pencil Only!
 - Calculator Part
 - Phones Up!

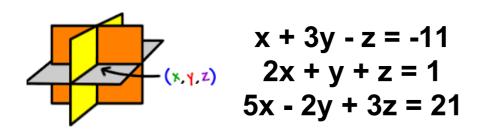


- You have 15 minutes
- When you are done
 - > Show me your Homeworl
 - > Start on WB Pg 27

3.6 Solving Systems of Linear Equations in 3 Variables

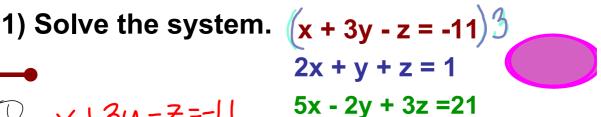
A system of linear equations in 3 variables

Looks something like:



A solution is an <u>ordered triple</u> (x,y,z) that makes all 3 equations true.





$$0 + \frac{x + 3y - z = -11}{2x + y + z} = 1$$

$$\frac{2x+y+2}{3x+4y=-10}$$

$$x = 2$$

$$\frac{2}{5X-2y+3Z=21}$$

$$\frac{3X+9y-3Z=-33}{8X+7y=-12}$$

$$y = -4$$

$$8(3x+4y=-10)$$

$$-3(8x+7y=-12)$$

$$(2, -4, 1)$$

$$+ \frac{24x + 32y = -80}{24x - 21y = 36}$$

$$||y = -44|$$

$$||y = -44|$$

$$3x + 4(-4) = -10$$

 $3x - 16 = -10$
 $3x = 6$
 $x = 2$

2) Solve the system.

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

 $2x + 2y + z = 5$
 $4x + 4y + 2z = 6$







3) Solve the system.

$$x + y + z = -3$$

 $2x - y - 2z = -5$
 $3y - z = 4$

You should eliminate x in the first two equations....why?

_____, ______)

ASSIGNMENT Part 1

HW3.6 p. 157 #1-11 odd,