

# Week Plan - Nov 25-27 Algebra 1 B

## Monday -

- Warmup: Soft PW pg 85 #13-14 **SETUP** only first, then SOLVE
- **Review problems from Thursday**  
<https://cdn.kutasoftware.com/Worksheets/Alg1/Systems%20of%20Equations%20Elimination.pdf>
- Review the notes on multiplying for additive inverse -- see next slide for example

## Tuesday -

- Warmup - Review Drills ---
- **Quiz on the use of Elimination Method (15 points)**
  - 4 problems --- two to completely solve, one to solve for only one variable, one to setup from word problem

## Wednesday -

- Early Dismissal Day - Lesson on special cases terminology
- Notes on section 5.4 - see the 2nd next slide for examples ---

# Objective/Standard/Learning Target

## Section 5.4: Solving Special Systems of Linear Equations

**Common Core State Standards:** A.CED.A.3, A.REI.C.6

**Learning Target:** Solve linear systems with different numbers of solutions.

### Success Criteria

- Determine the number of solutions of a system.
- Solve a system of linear equations with any number of solutions.

### Explore It!

Students will match systems of linear equations to the scenario they apply to, and will explain what their solutions represent and how the slopes and  $y$ -intercepts of their graphs help determine their number of solutions.

### Discuss

Discuss the numbers of solutions of linear systems (one solution, no solution, or infinitely many solutions).

### Example 1

Students will solve a system of linear equations with no solution.

$$y = 2x + 1$$

$$y = 2x + 5$$

### Example 2

Students will solve a system of linear equations with infinitely many solutions.

$$-2x + y = 3$$

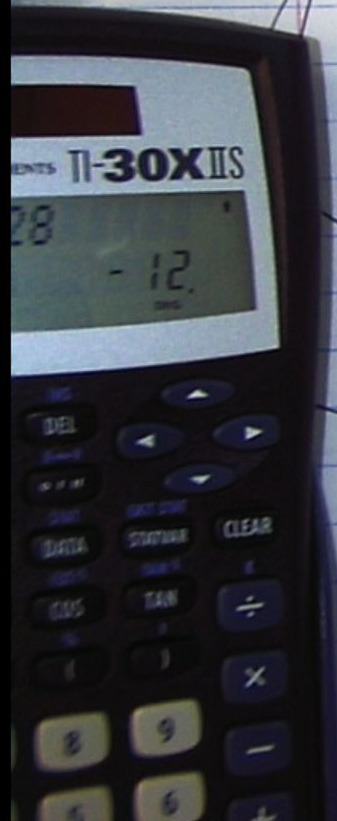
$$-4x + 2y = 6$$

~~New~~ Wed  
7.

$$\begin{aligned} x + 2y &= 20 \\ 2x + y &= 19 \end{aligned}$$

Step 1 = Create Setup  
by Multiplying

To get  $\frac{-2x}{2x}$   
0x



1<sup>st</sup> equation  $\times$  by -2

$$-2(x + 2y = 20)$$

$$\begin{aligned} -2x - 4y &= -40 \\ 2x + y &= 19 \end{aligned}$$

eliminate

→ Same

$$-3y = -21$$

$$y = 7$$

$$-2x - 4(7) = -40$$

$$-2x - 28 = -40$$

$$-2x = -12$$

$$x = 6$$