Skill/Objective: I can solve systems of equations with 3 variables by using elimination.

Variable z

Example 1:

$$x + 2y + z = 10$$
 $2x - y + 3z = -5$

Steps to solve:

Observations:

- · 3 variables (x y,z) · 2 have roefficient of 1
- · 3 equations · no zero pairs nothing · equations 253 have "2x

$$-2y - 8z = 32$$

$$-40y + 8z = -200$$

$$-42y = -168$$

$$-42 = 4$$

How does your prior knowledge of solving systems of equations with two variables help you to solve these problems? Be specific.

We do	
Example 2:	Observations:
2x - y + 3z = -2	
x + 4y - 2z = 16	
x + 4y - 2z = 16 5x + y - z = 14	