

SECTION C6: SOLVING LINEAR SYSTEMS WITH THREE VARIABLES

Homework: _____

Learning Targets:

1c. Understanding of how to solve systems of equations with three variables.

Example 1:

$$x = 2$$

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

$$x - 4y + 2z = 16$$

Example 2:

$$2x + y - 2z = 14$$

$$3x - y + z = 9$$

$$x + y - z = 7$$

3.
$$\begin{aligned} 2x + y - 3z &= -15 \\ 4x - y + z &= -7 \\ x - y - 2z &= -16 \end{aligned}$$

4.
$$\begin{aligned} 3x - y + 2z &= -11 \\ x + 2y + z &= -3 \\ 2x - 3y + 3z &= -4 \end{aligned}$$