

GUIDED NOTES – 7.2 SYSTEMS OF LINEAR EQUATIONS: THREE VARIABLES

LEARNING OBJECTIVES

In this section, you will:

- Solve systems of equations in three variables.
- Identify inconsistent systems of equations containing three variables.
- Express the solution of a system of dependent equations containing three variables.

SOLVING SYSTEMS OF EQUATIONS IN THREE VARIABLES

- Write out the 4 step process for solving for three unknowns, given a linear system of three equations.
 - 1.
 - 2.
 - 3.
 - 4.

Try It: Read Examples 2 and 3 in the text, then answer the following.

Solve the following system of equations in three variables.

$$2x + y - 2z = -1$$

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

$$x - 2y + 3z = 6$$