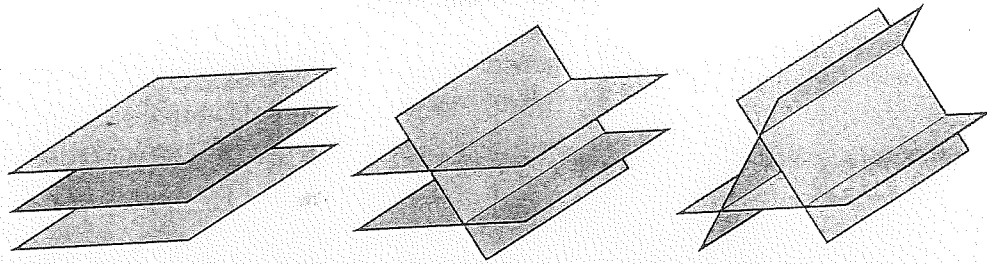
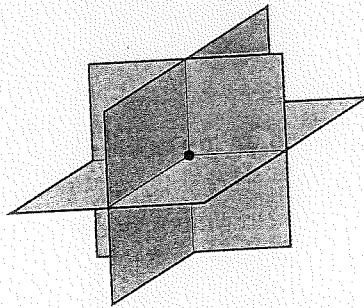


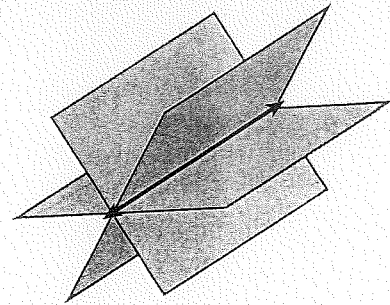
**No Solutions
Inconsistent Systems**



**One Solution
Independent Systems**



**Infinitely Many Solutions
Dependent Systems**



Solving a System of Linear Equations in Three Variables

Steps for Solving

Step 1: Pick two of the equations in your system and use elimination to get rid of one of the variables.

Step 2: Pick a different two equations and eliminate the same variable.

Step 3: The results from steps one and two will each be an equation in two variables. Use either the elimination or substitution method to solve for both variables.

Step 4: Substitute the values found in step 3 into any one of the original three equations to find the value of the third variable.

Example