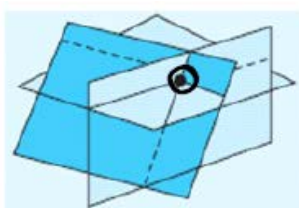


Day 5 – Systems of Linear Equations (3-Variables)

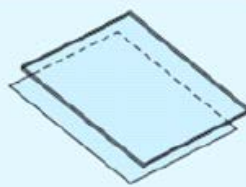
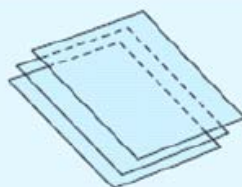
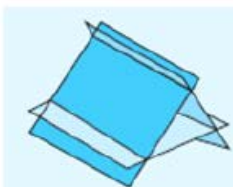
DEFINITION Linear Equations in Two and Three Variables

Let A , B , C and D be real numbers.

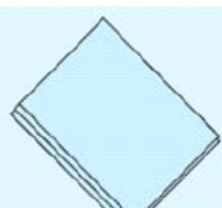
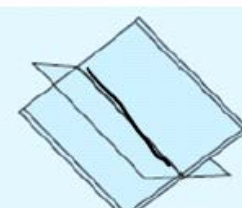
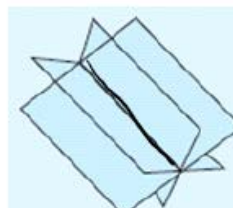
- $Ax + By = C$ is a linear equation in *two* variables.
(A , B are not both 0)
- $Ax + By + Cz = D$ is a linear equation in *three* variables.
(A , B , C not all 0)



one unique solution



No
Solution



Many
Solutions