# Algebra II

## Solving Systems of Linear Equations in Three Variables

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Equations in two variables define a _____.

How many solutions are possible in their crossing? _____

List them:

Equations in three variables define a _____.

How many solutions are possible in their crossing?

Solve each system.  (pg 447)

1) $x + y - 3z = 10$
$y + z = 12$
$z = -2$

9) $2x + y + 3z = 10$
   $x - 2y + z = 10$
   $-4x + 3y + 2z = 5$