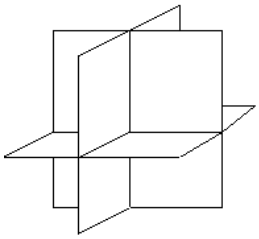
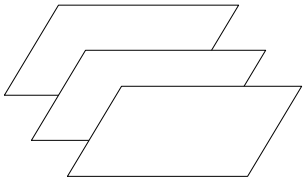
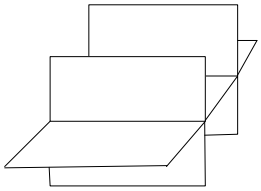
Solving Systems of Equations in Three Variables

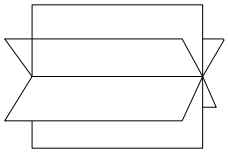


One Solution



No Solution





Infinitely Many Solutions

Directions: Solve the system of linear equations.

1. $x - 2y + 2z = 0$
   $6x + y + 3z = 6$
   $x + y + z = -4$

2. $2x + y = 2$

$y + z = 3$

$4x - z = 0$

3. $x - 5y + 4z = 8$

$3x + y - 2z = 7$

$-9x - 3y + 6z = 5$

4. $4x - 6y + 8z = 4$
   $5x + y - 2z = 4$
   $6x - 9y + 12z = 6$

5. $5x - 2y + z = 4$
   $-3x + 4y - z = 2$
   $6x - 8y + 2z = -4$