Name : _____ **Score :** _____

Teacher : _____ **Date :** _____

System of 3 Equations

Use substitution to solve each system.

1) $-9x - 9y - 9z = -72$
   $6x - 2y + z = 66$
   $5x - 9y - z = 66$

2) $5x + 5y + 5z = -25$
   $5x - 5y - 5z = 45$
   $-x + 5y + 5z = -37$

3) $-8x - 8y - 8z = -64$
   $6x - 7y + 5z = 153$
   $-x - 8y + 2z = 91$

4) $5x + 5y + 5z = -50$
   $-6x - 2y + 4z = 36$
   $x + 5y + 8z = -22$

5) $3x + 3y + 3z = 0$
   $-7x - 8y - 6z = -10$
   $-6x + 3y + 7z = -152$

6) $2x + 2y + 2z = -14$
   $4x - 9y + 6z = 19$
   $-3x + 2y + 4z = 34$

7) $-7x - 7y - 7z = -161$
   $-8x + 2y + 6z = 38$
   $3x - 7y + 7z = -9$

8) $6x + 6y + 6z = -78$
   $-9x - 6y - 3z = 96$
   $-4x + 6y + 8z = -10$

9) $x + y + z = 30$
   $x + y - 2z = -76$
   $3x + 3y + z = 3$

10) $-8x - 8y - 8z = -96$
    $6x + 6y - 8z = 86$
    $8x - 8y - 5z = 45$

11) $7x + 7y + 7z = 63$
    $-7x - 4y - 7z = -33$
    $-9x + 7y - 9z = -7$

12) $-8x - 8y - 8z = 104$
    $7x - 4y + 7z = 8$
    $-x - 8y - z = 76$