



Three-Variables Linear Equations ($ax+by+cz=d$)

Name: _____

Date: _____ Score: _____

1. $5x + 5y + 2z = 74$
 $6x + 5y + 5z = 101$
 $4x - 6y + 3z = 9$

2. $6x - 1y - 2z = 11$
 $2x - 4y + 4z = 30$
 $2x + 1y - 4z = -19$

3. $6x - 6y + 6z = 12$
 $6x + 1y + 6z = 26$
 $4x - 3y - 2z = 4$

4. $3x + 4y + 2z = 23$
 $3x + 3y - 3z = 15$
 $5x + 2y + 2z = 23$

5. $5x + 4y + 6z = 47$
 $1x + 1y + 4z = 19$
 $5x + 1y - 5z = -4$

6. $1x - 4y + 5z = 29$
 $5x - 4y + 5z = 61$
 $3x - 4y + 1z = 25$

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1. $5x + 5y + 2z = 74$
 $6x + 5y + 5z = 101$
 $4x - 6y + 3z = 9$

$$x = 6$$
$$y = 6$$
$$z = 7$$

2. $6x - 1y - 2z = 11$
 $2x - 4y + 4z = 30$
 $2x + 1y - 4z = -19$

$$x = 5$$
$$y = 3$$
$$z = 8$$

3. $6x - 6y + 6z = 12$
 $6x + 1y + 6z = 26$
 $4x - 3y - 2z = 4$

$$x = 3$$
$$y = 2$$
$$z = 1$$

4. $3x + 4y + 2z = 23$
 $3x + 3y - 3z = 15$
 $5x + 2y + 2z = 23$

$$x = 3$$
$$y = 3$$
$$z = 1$$

5. $5x + 4y + 6z = 47$
 $1x + 1y + 4z = 19$
 $5x + 1y - 5z = -4$

$$x = 1$$
$$y = 6$$
$$z = 3$$

6. $1x - 4y + 5z = 29$
 $5x - 4y + 5z = 61$
 $3x - 4y + 1z = 25$

$$x = 8$$
$$y = 1$$
$$z = 5$$