



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

Name: _____

Date: _____ Score: _____

1. $6x + 2y + 4z = 42$
 $3x - 6y - 5z = -28$
 $4x + 4y + 1z = 25$

2. $6x + 4y - 4z = -2$
 $1x + 4y + 4z = 49$
 $2x - 5y + 5z = 12$

3. $4x + 6y - 3z = 52$
 $3x + 3y + 6z = 45$
 $6x - 2y - 1z = 8$

4. $2x + 4y + 4z = 30$
 $3x - 4y - 3z = -21$
 $4x - 1y + 1z = 5$

5. $2x - 6y + 5z = -31$
 $6x - 4y - 5z = -15$
 $5x + 1y + 2z = 24$

6. $1x + 3y - 5z = 2$
 $1x - 5y - 6z = -25$
 $4x - 5y - 2z = 11$

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1. $6x + 2y + 4z = 42$
 $3x - 6y - 5z = -28$
 $4x + 4y + 1z = 25$

$$x = 3$$
$$y = 2$$
$$z = 5$$

2. $6x + 4y - 4z = -2$
 $1x + 4y + 4z = 49$
 $2x - 5y + 5z = 12$

$$x = 1$$
$$y = 5$$
$$z = 7$$

3. $4x + 6y - 3z = 52$
 $3x + 3y + 6z = 45$
 $6x - 2y - 1z = 8$

$$x = 4$$
$$y = 7$$
$$z = 2$$

4. $2x + 4y + 4z = 30$
 $3x - 4y - 3z = -21$
 $4x - 1y + 1z = 5$

$$x = 1$$
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5. $2x - 6y + 5z = -31$
 $6x - 4y - 5z = -15$
 $5x + 1y + 2z = 24$

$$x = 3$$
$$y = 7$$
$$z = 1$$

6. $1x + 3y - 5z = 2$
 $1x - 5y - 6z = -25$
 $4x - 5y - 2z = 11$

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