



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

Name: _____

Date: _____ Score: _____

1. $1x + 6y - 3z = 13$
 $5x + 5y + 5z = 70$
 $2x - 5y + 4z = 15$

2. $6x - 2y + 2z = 40$
 $5x - 4y + 5z = 37$
 $5x - 2y - 6z = -15$

3. $1x + 6y + 5z = 61$
 $3x - 2y + 5z = 13$
 $3x - 5y + 4z = -12$

4. $3x + 2y + 2z = 31$
 $6x - 5y - 2z = -40$
 $3x + 2y - 6z = -33$

5. $2x - 1y + 6z = 18$
 $1x + 1y + 4z = 15$
 $6x + 2y + 3z = 19$

6. $5x - 5y + 2z = 17$
 $4x - 4y - 6z = -32$
 $3x - 5y - 6z = -43$



Name: _____

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1. $1x + 6y - 3z = 13$
 $5x + 5y + 5z = 70$
 $2x - 5y + 4z = 15$

$$x = 7$$
$$y = 3$$
$$z = 4$$

2. $6x - 2y + 2z = 40$
 $5x - 4y + 5z = 37$
 $5x - 2y - 6z = -15$

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

3. $1x + 6y + 5z = 61$
 $3x - 2y + 5z = 13$
 $3x - 5y + 4z = -12$

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

4. $3x + 2y + 2z = 31$
 $6x - 5y - 2z = -40$
 $3x + 2y - 6z = -33$

$$x = 1$$
$$y = 6$$
$$z = 8$$

5. $2x - 1y + 6z = 18$
 $1x + 1y + 4z = 15$
 $6x + 2y + 3z = 19$

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

6. $5x - 5y + 2z = 17$
 $4x - 4y - 6z = -32$
 $3x - 5y - 6z = -43$

$$x = 6$$
$$y = 5$$
$$z = 6$$