



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

Name: _____

Date: _____ Score: _____

1. $1x + 1y + 1z = 14$
 $2x + 4y - 1z = 38$
 $6x - 2y - 1z = 6$

2. $6x - 6y + 2z = 10$
 $2x - 1y - 3z = 0$
 $1x - 6y - 2z = -23$

3. $2x - 6y + 3z = 8$
 $5x - 3y - 1z = 22$
 $1x - 5y + 6z = 16$

4. $4x + 3y - 4z = -14$
 $2x + 4y + 6z = 62$
 $6x + 3y - 6z = -24$

5. $1x - 2y - 1z = -12$
 $4x + 3y + 1z = 26$
 $1x - 2y + 3z = 12$

6. $5x - 5y + 3z = 18$
 $4x - 3y + 5z = 21$
 $3x - 5y - 2z = -1$

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Name: _____

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1. $1x + 1y + 1z = 14$
 $2x + 4y - 1z = 38$
 $6x - 2y - 1z = 6$

$$x = 4$$
$$y = 8$$
$$z = 2$$

2. $6x - 6y + 2z = 10$
 $2x - 1y - 3z = 0$
 $1x - 6y - 2z = -23$

$$x = 5$$
$$y = 4$$
$$z = 2$$

3. $2x - 6y + 3z = 8$
 $5x - 3y - 1z = 22$
 $1x - 5y + 6z = 16$

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

4. $4x + 3y - 4z = -14$
 $2x + 4y + 6z = 62$
 $6x + 3y - 6z = -24$

$$x = 3$$
$$y = 2$$
$$z = 8$$

5. $1x - 2y - 1z = -12$
 $4x + 3y + 1z = 26$
 $1x - 2y + 3z = 12$

$$x = 2$$
$$y = 4$$
$$z = 6$$

6. $5x - 5y + 3z = 18$
 $4x - 3y + 5z = 21$
 $3x - 5y - 2z = -1$

$$x = 7$$
$$y = 4$$
$$z = 1$$