



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

Name: _____

Date: _____ Score: _____

1. $1x - 6y - 4z = -51$
 $1x - 2y - 4z = -23$
 $6x + 6y - 4z = 48$

2. $4x - 3y - 4z = -22$
 $2x - 2y + 3z = 26$
 $2x + 6y + 3z = 74$

3. $3x - 3y + 5z = 15$
 $6x + 3y + 3z = 63$
 $5x - 2y + 1z = 21$

4. $6x - 6y + 2z = -12$
 $6x + 4y + 1z = 35$
 $5x + 2y + 1z = 23$

5. $3x - 6y - 5z = -37$
 $6x + 6y - 3z = 33$
 $2x + 2y - 1z = 11$

6. $6x - 5y + 5z = -4$
 $5x - 5y + 6z = -1$
 $4x - 5y - 4z = -42$

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$$\begin{aligned} 1. \quad & 1x - 6y - 4z = -51 \\ & 1x - 2y - 4z = -23 \\ & 6x + 6y - 4z = 48 \end{aligned}$$

$$\begin{aligned} x &= 3 \\ y &= 7 \\ z &= 3 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4x - 3y - 4z = -22 \\ & 2x - 2y + 3z = 26 \\ & 2x + 6y + 3z = 74 \end{aligned}$$

$$\begin{aligned} x &= 7 \\ y &= 6 \\ z &= 8 \end{aligned}$$

$$\begin{aligned} 3. \quad & 3x - 3y + 5z = 15 \\ & 6x + 3y + 3z = 63 \\ & 5x - 2y + 1z = 21 \end{aligned}$$

$$\begin{aligned} x &= 6 \\ y &= 6 \\ z &= 3 \end{aligned}$$

$$\begin{aligned} 4. \quad & 6x - 6y + 2z = -12 \\ & 6x + 4y + 1z = 35 \\ & 5x + 2y + 1z = 23 \end{aligned}$$

$$\begin{aligned} x &= 2 \\ y &= 5 \\ z &= 3 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3x - 6y - 5z = -37 \\ & 6x + 6y - 3z = 33 \\ & 2x + 2y - 1z = 11 \end{aligned}$$

$$\begin{aligned} x &= 4 \\ y &= 4 \\ z &= 5 \end{aligned}$$

$$\begin{aligned} 6. \quad & 6x - 5y + 5z = -4 \\ & 5x - 5y + 6z = -1 \\ & 4x - 5y - 4z = -42 \end{aligned}$$

$$\begin{aligned} x &= 1 \\ y &= 6 \\ z &= 4 \end{aligned}$$