



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

Name: _____

Date: _____ Score: _____

1. $6x + 1y - 3z = 11$
 $2x + 2y - 2z = 6$
 $5x - 6y - 2z = -22$

2. $5x + 1y - 6z = 34$
 $3x + 2y + 4z = 44$
 $1x - 1y + 2z = 6$

3. $4x - 2y - 2z = 4$
 $4x + 5y - 5z = 6$
 $4x - 2y + 3z = 24$

4. $6x + 2y - 4z = -2$
 $2x + 2y + 6z = 66$
 $6x - 4y - 5z = -46$

5. $2x + 2y + 3z = 30$
 $4x - 1y - 1z = 12$
 $5x + 6y - 6z = 25$

6. $5x - 2y + 5z = 24$
 $6x + 6y - 1z = 68$
 $2x + 1y - 5z = -4$



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$$\begin{aligned}1. \quad & 6x + 1y - 3z = 11 \\ & 2x + 2y - 2z = 6 \\ & 5x - 6y - 2z = -22\end{aligned}$$

$$\begin{aligned}x &= 4 \\ y &= 5 \\ z &= 6\end{aligned}$$

$$\begin{aligned}2. \quad & 5x + 1y - 6z = 34 \\ & 3x + 2y + 4z = 44 \\ & 1x - 1y + 2z = 6\end{aligned}$$

$$\begin{aligned}x &= 8 \\ y &= 6 \\ z &= 2\end{aligned}$$

$$\begin{aligned}3. \quad & 4x - 2y - 2z = 4 \\ & 4x + 5y - 5z = 6 \\ & 4x - 2y + 3z = 24\end{aligned}$$

$$\begin{aligned}x &= 4 \\ y &= 2 \\ z &= 4\end{aligned}$$

$$\begin{aligned}4. \quad & 6x + 2y - 4z = -2 \\ & 2x + 2y + 6z = 66 \\ & 6x - 4y - 5z = -46\end{aligned}$$

$$\begin{aligned}x &= 3 \\ y &= 6 \\ z &= 8\end{aligned}$$

$$\begin{aligned}5. \quad & 2x + 2y + 3z = 30 \\ & 4x - 1y - 1z = 12 \\ & 5x + 6y - 6z = 25\end{aligned}$$

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

$$\begin{aligned}6. \quad & 5x - 2y + 5z = 24 \\ & 6x + 6y - 1z = 68 \\ & 2x + 1y - 5z = -4\end{aligned}$$

$$\begin{aligned}x &= 4 \\ y &= 8 \\ z &= 4\end{aligned}$$