



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

Name: _____

Date: _____ Score: _____

1. $4x - 6y - 2z = -8$
 $1x + 1y + 2z = 18$
 $4x + 5y - 6z = 5$

2. $4x - 1y + 4z = 38$
 $6x - 3y + 3z = 36$
 $3x - 6y + 1z = -11$

3. $5x + 1y - 4z = 14$
 $4x - 5y - 3z = -22$
 $4x - 1y + 5z = 66$

4. $6x - 1y - 1z = 32$
 $1x + 6y - 6z = 7$
 $1x - 4y + 1z = -8$

5. $5x - 1y - 2z = 33$
 $1x - 4y - 5z = -17$
 $5x + 1y - 3z = 42$

6. $1x - 5y - 1z = -14$
 $4x + 4y + 5z = 43$
 $4x - 4y + 1z = 7$



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$$\begin{aligned}1. \quad & 4x - 6y - 2z = -8 \\ & 1x + 1y + 2z = 18 \\ & 4x + 5y - 6z = 5\end{aligned}$$

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

$$\begin{aligned}2. \quad & 4x - 1y + 4z = 38 \\ & 6x - 3y + 3z = 36 \\ & 3x - 6y + 1z = -11\end{aligned}$$

$$\begin{aligned}x &= 7 \\ y &= 6 \\ z &= 4\end{aligned}$$

$$\begin{aligned}3. \quad & 5x + 1y - 4z = 14 \\ & 4x - 5y - 3z = -22 \\ & 4x - 1y + 5z = 66\end{aligned}$$

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

$$\begin{aligned}4. \quad & 6x - 1y - 1z = 32 \\ & 1x + 6y - 6z = 7 \\ & 1x - 4y + 1z = -8\end{aligned}$$

$$\begin{aligned}x &= 7 \\ y &= 5 \\ z &= 5\end{aligned}$$

$$\begin{aligned}5. \quad & 5x - 1y - 2z = 33 \\ & 1x - 4y - 5z = -17 \\ & 5x + 1y - 3z = 42\end{aligned}$$

$$\begin{aligned}x &= 8 \\ y &= 5 \\ z &= 1\end{aligned}$$

$$\begin{aligned}6. \quad & 1x - 5y - 1z = -14 \\ & 4x + 4y + 5z = 43 \\ & 4x - 4y + 1z = 7\end{aligned}$$

$$\begin{aligned}x &= 4 \\ y &= 3 \\ z &= 3\end{aligned}$$