



三元一次方程式 ($ax+by+cz=d$)

姓名: _____

日期: _____ 分數: _____

1. $2x - 5y + 2z = -13$
 $1x - 2y + 5z = 4$
 $4x + 4y - 4z = 28$

2. $6x - 3y - 1z = 4$
 $3x + 2y - 4z = 23$
 $1x + 4y - 4z = 29$

3. $6x - 3y + 2z = 32$
 $5x - 2y - 2z = 4$
 $2x - 3y + 1z = 1$

4. $1x + 4y - 3z = -8$
 $4x + 3y - 5z = -2$
 $4x - 2y + 1z = 36$

5. $2x + 3y - 2z = 19$
 $4x - 3y - 5z = -32$
 $6x - 1y + 4z = 57$

6. $4x - 2y + 6z = 36$
 $2x + 4y + 6z = 82$
 $5x + 2y - 1z = 13$



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$$\begin{aligned} 1. \quad & 2x - 5y + 2z = -13 \\ & 1x - 2y + 5z = 4 \\ & 4x + 4y - 4z = 28 \end{aligned}$$

$$\begin{aligned} x &= 4 \\ y &= 5 \\ z &= 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & 6x - 3y - 1z = 4 \\ & 3x + 2y - 4z = 23 \\ & 1x + 4y - 4z = 29 \end{aligned}$$

$$\begin{aligned} x &= 5 \\ y &= 8 \\ z &= 2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6x - 3y + 2z = 32 \\ & 5x - 2y - 2z = 4 \\ & 2x - 3y + 1z = 1 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & 1x + 4y - 3z = -8 \\ & 4x + 3y - 5z = -2 \\ & 4x - 2y + 1z = 36 \end{aligned}$$

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

$$\begin{aligned} 5. \quad & 2x + 3y - 2z = 19 \\ & 4x - 3y - 5z = -32 \\ & 6x - 1y + 4z = 57 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & 4x - 2y + 6z = 36 \\ & 2x + 4y + 6z = 82 \\ & 5x + 2y - 1z = 13 \end{aligned}$$

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