



三元一次方程式 ( $ax+by+cz=d$ )

姓名: \_\_\_\_\_

日期: \_\_\_\_\_ 分數: \_\_\_\_\_

1.  $2x - 6y + 3z = -9$   
 $1x + 6y - 4z = 17$   
 $6x + 1y - 3z = 18$

2.  $1x - 1y + 5z = 23$   
 $5x - 5y - 5z = -35$   
 $4x - 3y + 5z = 23$

3.  $2x + 4y + 1z = 31$   
 $4x - 2y - 3z = -23$   
 $6x + 5y - 2z = 26$

4.  $1x - 6y + 3z = 20$   
 $2x + 5y + 3z = 50$   
 $1x - 5y - 6z = -50$

5.  $3x - 6y - 5z = -14$   
 $3x + 1y + 5z = 33$   
 $3x - 5y - 5z = -13$

6.  $2x - 3y + 6z = 41$   
 $3x - 4y + 4z = 27$   
 $2x - 3y + 3z = 20$



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$$\begin{aligned} 1. \quad & 2x - 6y + 3z = -9 \\ & 1x + 6y - 4z = 17 \\ & 6x + 1y - 3z = 18 \end{aligned}$$

$$\begin{aligned} x &= 3 \\ y &= 3 \\ z &= 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & 1x - 1y + 5z = 23 \\ & 5x - 5y - 5z = -35 \\ & 4x - 3y + 5z = 23 \end{aligned}$$

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

$$\begin{aligned} 3. \quad & 2x + 4y + 1z = 31 \\ & 4x - 2y - 3z = -23 \\ & 6x + 5y - 2z = 26 \end{aligned}$$

$$\begin{aligned} x &= 1 \\ y &= 6 \\ z &= 5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 1x - 6y + 3z = 20 \\ & 2x + 5y + 3z = 50 \\ & 1x - 5y - 6z = -50 \end{aligned}$$

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

$$\begin{aligned} 5. \quad & 3x - 6y - 5z = -14 \\ & 3x + 1y + 5z = 33 \\ & 3x - 5y - 5z = -13 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & 2x - 3y + 6z = 41 \\ & 3x - 4y + 4z = 27 \\ & 2x - 3y + 3z = 20 \end{aligned}$$

$$\begin{aligned} x &= 1 \\ y &= 1 \\ z &= 7 \end{aligned}$$