

三元一次方程式 ($ax+by+cz=d$)

姓名: _____

日期: _____ 分數: _____

1. $1x + 5y + 3z = 50$
 $3x + 2y - 1z = 18$
 $5x - 1y + 4z = 58$

2. $6x + 1y + 1z = 42$
 $4x - 6y - 5z = -8$
 $4x - 4y + 2z = 24$

3. $4x - 5y + 4z = -11$
 $1x - 5y + 1z = -29$
 $1x + 1y + 1z = 13$

4. $2x - 2y - 4z = -2$
 $1x - 2y + 1z = 5$
 $5x - 5y + 5z = 40$

5. $1x - 5y + 5z = -4$
 $2x - 6y + 5z = -4$
 $6x + 5y + 2z = 74$

6. $2x + 4y + 4z = 36$
 $1x - 4y - 5z = -27$
 $1x + 2y - 6z = -6$



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$$\begin{aligned} 1. \quad & 1x + 5y + 3z = 50 \\ & 3x + 2y - 1z = 18 \\ & 5x - 1y + 4z = 58 \end{aligned}$$

$$x = 6$$

$$y = 4$$

$$z = 8$$

$$\begin{aligned} 2. \quad & 6x + 1y + 1z = 42 \\ & 4x - 6y - 5z = -8 \\ & 4x - 4y + 2z = 24 \end{aligned}$$

$$x = 6$$

$$y = 2$$

$$z = 4$$

$$\begin{aligned} 3. \quad & 4x - 5y + 4z = -11 \\ & 1x - 5y + 1z = -29 \\ & 1x + 1y + 1z = 13 \end{aligned}$$

$$x = 1$$

$$y = 7$$

$$z = 5$$

$$\begin{aligned} 4. \quad & 2x - 2y - 4z = -2 \\ & 1x - 2y + 1z = 5 \\ & 5x - 5y + 5z = 40 \end{aligned}$$

$$x = 8$$

$$y = 3$$

$$z = 3$$

$$\begin{aligned} 5. \quad & 1x - 5y + 5z = -4 \\ & 2x - 6y + 5z = -4 \\ & 6x + 5y + 2z = 74 \end{aligned}$$

$$x = 6$$

$$y = 6$$

$$z = 4$$

$$\begin{aligned} 6. \quad & 2x + 4y + 4z = 36 \\ & 1x - 4y - 5z = -27 \\ & 1x + 2y - 6z = -6 \end{aligned}$$

$$x = 4$$

$$y = 4$$

$$z = 3$$