



三元一次方程式 ($ax+by+cz=d$)

姓名: _____

日期: _____ 分數: _____

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

2.
$$\begin{aligned} 6x - 5y + 3z &= 5 \\ 4x - 4y - 6z &= -42 \\ 2x - 2y - 6z &= -36 \end{aligned}$$

3.
$$\begin{aligned} 3x + 5y - 1z &= 58 \\ 4x - 4y - 3z &= -13 \\ 1x - 5y - 4z &= -45 \end{aligned}$$

4.
$$\begin{aligned} 2x + 6y - 2z &= 36 \\ 1x - 3y - 5z &= -26 \\ 6x + 4y - 5z &= 26 \end{aligned}$$

5.
$$\begin{aligned} 1x - 3y - 5z &= -19 \\ 1x - 4y - 4z &= -16 \\ 5x + 3y - 5z &= 3 \end{aligned}$$

6.
$$\begin{aligned} 4x - 1y + 4z &= 41 \\ 5x + 2y - 3z &= 34 \\ 1x - 1y - 1z &= -5 \end{aligned}$$



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

$$x = 3$$

$$y = 2$$

$$z = 6$$

$$\begin{aligned} 2. \quad & 6x - 5y + 3z = 5 \\ & 4x - 4y - 6z = -42 \\ & 2x - 2y - 6z = -36 \end{aligned}$$

$$x = 5$$

$$y = 8$$

$$z = 5$$

$$\begin{aligned} 3. \quad & 3x + 5y - 1z = 58 \\ & 4x - 4y - 3z = -13 \\ & 1x - 5y - 4z = -45 \end{aligned}$$

$$x = 7$$

$$y = 8$$

$$z = 3$$

$$\begin{aligned} 4. \quad & 2x + 6y - 2z = 36 \\ & 1x - 3y - 5z = -26 \\ & 6x + 4y - 5z = 26 \end{aligned}$$

$$x = 2$$

$$y = 6$$

$$z = 2$$

$$\begin{aligned} 5. \quad & 1x - 3y - 5z = -19 \\ & 1x - 4y - 4z = -16 \\ & 5x + 3y - 5z = 3 \end{aligned}$$

$$x = 4$$

$$y = 1$$

$$z = 4$$

$$\begin{aligned} 6. \quad & 4x - 1y + 4z = 41 \\ & 5x + 2y - 3z = 34 \\ & 1x - 1y - 1z = -5 \end{aligned}$$

$$x = 7$$

$$y = 7$$

$$z = 5$$