

運用高斯消去法解下列各線性方程組。(1-6)

$$1. \begin{cases} x + y = -1 \\ 2x - z = 5 \\ 4y + 3z = -15 \end{cases} \quad \text{例 12.7}$$

$$3. \begin{cases} -x + 3y + 2z = 6 \\ 2x - 7y = -12 \\ x - 2y + z = 1 \end{cases}$$

$$5. \begin{cases} 2x - 7y + 3z = -14 \\ -x + 5y + z = 8 \\ x - 2y + 6z = -10 \end{cases}$$

$$2. \begin{cases} x + 2y - z = 0 \\ x - y = -3 \\ 3x + 5z = 12 \end{cases}$$

$$4. \begin{cases} -x + 2y + 4z = -2 \\ -2x + y + 3z = -1 \\ 4x - 5y - 8z = -4 \end{cases}$$

$$6. \begin{cases} -3x + 10y - 5z = -33 \\ 2x - 6y + 7z = 4 \\ x - 4y + 3z = 9 \end{cases}$$

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$$12. \begin{cases} 2x + 4y + z = 3 \\ 6x + 7y - 2z = 4 \\ 2x + 3y = 2 \\ 2x - y + 4z = -10 \end{cases} \quad \text{例 12.8}$$

$$14. \begin{cases} x + 2y - 2z = -2 \\ 5x + 6y - 7z = -19 \\ 3x + 4y - 2z = 2 \\ -x + 2y - z = 11 \end{cases}$$

$$13. \begin{cases} 3x + 6y - 4z = 16 \\ x + 3y - 2z = 7 \\ -2x + 6y - 3z = 2 \\ 4x - 3y + z = 7 \end{cases}$$