

$$\textcircled{1} \quad 4x - 3y + 6z = 18$$

$$\textcircled{2} \quad -x + 5y + 4z = 48$$

$$\textcircled{3} \quad 6x - 2y + 5z = 0$$

$$\begin{array}{r} \textcircled{1} \quad 4x - 3y + 6z = 18 \\ + \\ 4 \cdot \textcircled{2} \quad -4x + 20y + 16z = 192 \\ \hline \textcircled{11} \quad 17y + 22z = 210 \end{array}$$

$$6x \cdot \textcircled{2} \quad -6x + 30y + 24z = 288$$

$$\textcircled{3} \quad + \quad 6x - 2y + 5z = 0$$

$$\textcircled{R2} \quad 28y + 29z = 288$$

$$28 \cdot (H_1) \quad 476y + 616z = 5880$$

$$17 \cdot (H_2) \quad 476y + 493z = 4896$$

$$\frac{123z = 984}{123}$$

$$z = 8$$

(H₁)

$$17y + 22(8) = 210$$

$$17y + 176 = 210$$

$$\frac{17y}{17} = \frac{34}{17} \quad y = 2$$

$$\textcircled{1} \quad 4x - 3(2) + 6(8) = 18$$

$$4x - 6 + 48 = 18$$

$$4x + 42 = 18$$

$$4x = -24 \quad x = -6$$

$$x = -6 \quad y = 2 \quad z = 8$$