

$$\boxed{1} \begin{cases} x - 3y + z - 2w = 1 \\ -2x + 7y + 8w = -2 \\ -x + y - 4z - 4w = 1 \\ 2x - 3y + 6z + 5w = 3 \end{cases} \text{を解け.}$$

$$\boxed{2} \begin{cases} x + 2y + 3z + 4w = 0 \\ 3x + 4y + 5z + 6w = 0 \\ 5x + 6y + 7z + 8w = 0 \\ 7x + 8y + 9z + 10w = 0 \end{cases} \text{の解をすべて求めよ.}$$