

$$\rightarrow \begin{array}{cccc} 1 & -1 & -2 & -5 \\ 0 & 1 & 1 & 3 \\ 0 & 0 & 1 & 2 \end{array}$$

$$0 \quad 1 \quad 1 \quad 3$$

$$0 \quad 0 \quad 1 \quad 2$$

$$\rightarrow x_1 - x_2 - 2x_3 = -5$$

$$x_2 + x_3 = 3$$

$$x_3 = 2$$

$$\rightarrow x_3 = 2, \quad x_2 = 3 - x_3 = 1$$

$$x_1 = -5 + x_2 + 2x_3 = 0$$

ex. $w - x - y + 2z = 1$

$$\geq 10 - 2x - y + 3z = 3$$

$$-10 + x - y = -3$$