帮班要时 20200n2x06 部명

1 + 2y - S = 3

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$$2+2y-w=3$$

$$2a-y+z+3w=2$$

$$\Rightarrow [Ax:b] = \begin{bmatrix} 1 & 2 & 0 & -1 & 3 \\ 2 & -1 & 1 & 3 & 2 \end{bmatrix}$$

$$2x - y + z + 3w = 2$$

$$x + ny - z - 6w = 1$$

$$x - 3y + z + 4w = -1$$

$$Ax:b = \begin{bmatrix} 2 & -1 & 1 & 3 & 2 \\ 1 & 1 & -1 & -6 & 1 \\ 1 & -3 & 1 & 4 & -1 \end{bmatrix}$$

In this case, the leading variables are x, y and free variables are z, w. So, to get the solution, we should assign parameters to free variables; z=r, W=S

$$y - \frac{1}{5}r - s = \frac{4}{5} \Rightarrow y = \frac{r + 5s + 4}{5}, \quad x = -\frac{2r + 5s - 1}{5}$$

Answer: $x = -\frac{2r + 5s - 1}{5}, \quad y = \frac{r + 5s + 4}{5}, \quad z = r, \quad w = s$