

3. Solve the resulting system

ex.
$$\begin{bmatrix} 1 & -1 & -1 & 2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{array}{ccccc} 1 & -1 & 0 & 1 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 \end{array}$$

$$w = 2 + x - z$$

$$y = 1 + z$$

ex. Find the line of intersection of the planes

$$x + 2y - z = 3, \quad 2x + 3y + z = 1$$