

Step-1

Given equation is $2x + 3y + z + 5t = 8$. We have to write it in the matrix form $Ax = b$.

Step-2

Converting into $Ax = b$ form gives

$$(2 \ 3 \ 1 \ 5) \begin{pmatrix} x \\ y \\ z \\ t \end{pmatrix} = (8)$$

Where $A = (2 \ 3 \ 1 \ 5)$ which of order 1 by 4.

The solution x fill is a 3D plane in four dimensions.