Thm: A system of Impar egns with augmented matrix [AID] is consistent iff b is a linear combination of the columns of A. (P) $\chi - y = 1 = 1$ = $\chi = 2$, y = 1 $\chi + y = 3$ $2\begin{bmatrix}1\\1\end{bmatrix} + \begin{bmatrix}-1\\1\end{bmatrix} = \begin{bmatrix}1\\3\end{bmatrix}$ (C) 7-4=1 7-4=3 has no 50/ Def. If S= ? VI, V2, --, VB3 is a set of vectors in IR", then the Set of linear combinations of VI, --, VR is called the spom of S; and is denoted

C