Sec 4.5 7 5= 7 (-4,5), (0,0)3 1-40/=0 = Linearly dependent of Solvern't span R2 1/ 5 = }(1,2), (1,0), (0,1)} $(\frac{1}{2},\frac{1}{0},\frac{0}{0})$ $R_2 - 2R_1 \rightarrow (\frac{1}{0},\frac{1}{0}) \rightarrow C_1 = -C_2$ linearly dependent 15/ 5= } (1,3,0), (4,1,2), (-2,5,-2)} 3 1 5 = 0 Linearly dependent & S doesn't span R3 17 S= (7,0,3), (8,-4,1)} $\begin{pmatrix} 7 & 8 \\ 0 & -4 \\ 3 & 1 \end{pmatrix} ? R_3 - 3R_1 \rightarrow \begin{pmatrix} 7 & 8 \\ 0 & -4 \\ 0 & -17 \end{pmatrix} \Rightarrow C_1 = 0$ S doesn't span R3 (2pts make line) is not basis 23/ S= 71,2x,-4+x2,5x3 (10 -40) + R2 - (0 0 -40) - C= -5CH S. is linearly dependent.

3/ 5= ((0), (0)) $\begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix} \rightarrow C_1 = C_2 = 0.$ S devent span Maxa 39/ 5= ? (4,-3), (5,2)3 for R2 1 4 5 = 23 \$0 basis. (92 0) 1/2 R1 -> (10)-S & a basis uly 5= ?(1,5,3), (0,1,2), (0,0,6)} R3 | 5 10 = 6 ±0 Sisabusis 43/ S= {(0,3,-2), (4,0,3), (-8,15,-16)} for R3 $\begin{vmatrix} 0 & 4 & -8 \\ 3 & 0 & 15 \end{vmatrix} = 0$ $\begin{vmatrix} -2 & 3 & -16 \end{vmatrix}$ s is nota basis