$det(A) = \begin{vmatrix} 1 & 2 & 3 \\ 2 & 9 & 3 \end{vmatrix} = -1$ (Trivial) So, the set S= EVI3V2, V33 ix linearly modelment in R. 3 independent in R. 3 So, Sua basis for R. 6) Find the coordinates vector of V= (5,-1,9) with respect to S. V = CIVI+C2V2+C3V3

Now find scalar C1, C2 and C3 (S,-1,9)=C1(1,2,1)+(2(2,9,0)+(3(3,3,4) C1+2C2+3C3=5 29 + 902 + 3C3 = 0-1

C1 +002 +4(3 = 9

R2-2R1, R3-R1 2 3 5 0 -3 -11 4 1