(i) ) = 1 & MGP

Span B =) +20 (=) 8 & MGP

 $\begin{array}{c} P_{A}(\lambda) = (\lambda - 1)(\lambda - 0) = 0 \\ \sqrt{\partial} \lambda = 1 \Leftrightarrow f \otimes_{k} = 0 \Leftrightarrow f \approx e \otimes_{k} \times \sqrt{3} \gg E_{1} = \Re w |_{O} \end{array}$ 1=0612=0 = 101 => E0 = spand 1) => Span S[1] => Whong theo how to => ( 20 ( ) 2 ( ) => E= Span ( [ ] ) > 10 chio hoa

13122 det(AA)=0 4213-2 det(AA)=0 2-28  $di+(A^{T}A - \lambda I) = 0$   $= -\lambda^{3} + 34\lambda^{2} - 225\lambda + 0 = 6$   $= (\lambda - 25)(\lambda - 9)(\lambda - 0) = 0 = \lambda = 0$ 25 0 0 > 0 = 0 9 0 0 0 0  $-12x + 12y + 2z = 0 \qquad (z = 6x - 6y = 0)$   $-12x + 12y - 2z = 0 \Rightarrow 7 - 100x + 100y = 0$   $-2x - 2y - 17z = 0 \qquad x = y$ => E25 = Span { ] (=) 2c 1 3

320-80 124-20E 01640 14 12 2 0 (=) 12 4 -2 0 (=) 2 -2 -1 0) (=) Z 1/4 = 1 - V = 1/18 L1 = 13 12 2 0 152 +15y = 0 12 13 -2 0 (=) 122 + 13g -22=0 2 -2 8 0 2-y + 4z = 0  $\begin{vmatrix} -\frac{2}{3} \\ 2\frac{1}{3} \end{vmatrix} = \rangle$ 1/12 1/18 -P [500° 030° Tim 5

2 A Ahhh Ay = 5 2 3 -9 1 1/2 - 1 5/2 - 1/12 Ay = 5 2 3 -9 1 1/2 - 5/2 1/12 (AC - 1/12 1/12 0 1 1 1 1 5 0 0 TE 1 1 0 3 0 J

€a\*e=e\*a=a, Va ER e 0 (e E R ( - 1 2) Vay & la Neutral & el Phan the right stat my b Je 10\* 0= 6\* a = 0, Va, b E E a\*b=ap+a+b=0 ( ) b (1 + a) = - a = -a 1+a DK: b\*-1 (=) 1 (=) + a = -1-a 0=-1 ( 10 81) , berly 5. The grap hours 6×6-66+a+60 (1) £2) (8pcm.