

Ex(2) Find all the miners & cofactor of A 2 [3 -1 2] an = 0 => Mn = |-1 2 = -1-0 = -1 => (1= (-1)(-1)= -1 $\alpha_{12} = 2 \Rightarrow M_{12} = \begin{bmatrix} 3 & 2 \\ 4 & 1 \end{bmatrix} = 3 - 8 = -5 =)Cn = (-1)(-5) = 5$ 013=1 => M13= 3 -1 = 0+4=4 => C13=(-1)(4)=4 (21 = 3 =) M21 = 1 = 2-0=2=)(21 = (-1)(2) 2-2 Q22 =-1 => M22 = | 4 | = 0-4= -4=) C22 = (-1) (-4) =-4 a23=2=>M23=102=0-8=-8=-8=-C23=(-1)(-8)=8 an = 4 = 1 Mai = 12 1 = 4+1=5 = 1 C31 = (-1) (5) = 5 0132 = 0 = 1 M32 = 10 1 = 0-32-3=1 C32=(-1) (-3) = 3

(67) A = | 921 922 923 912 913 then we can La31 932 933 J find det (A)= [A] by several way. by 1 row = an C11 + a12 C12 + 913 C13 2 2 nd row = azi Czi + azz Czz + azz Czz 1.3 row = 031 C31 + 932 C32 + 933 C33 921 922 Ex (4) Find the determinant of نحتار لصفاولعود اذكار المسفار : الى ع 1A123 C 13+0 C23 +0 C33+0 C43

(68) 911 913 1911 912 913 1921 912 923 There is another method too his 931 932 9551 an ans an ans CT23 Ste 1 9/22 931 932 933 Q31 Q32 911922 933 + 912 923 931 + 913 921 932 + 912 921 933 911 923 932 - 913 922 031 EX(5) Find the det. of A - [0 2 1 2] 141 -4 -12-0+16-12-(-4)-(6)-(6) * Determinant of a triangular matrix 012 upper triangular lower triangular = anazzas freduct of the entres with acum diagram



