

214:2 0 -2:11:-3 Ourtin 2 A : [2 3 | Find: One eigenvalue 2 on eigenvecter 30 ergen veder : [e] [23][1] = 1[e] (2+3e=) (2+ 3e)e = 3+10e 3e2+2e = 3+10e => 3e2 -8e -8=0 (3e+1) (e+3) = 0 = 9 e=3,-1/3 So eigen vector are [1] and [-1/3] The corresponding eigen values avo x 2 + 3e = 2+3(3):1) x = 213e = 2 + 3 (-1/s) = 1

Question 3 Ont Eigen redor Fign weder ([1,3,4,5,7] P / 3 2 Unil vector Vector Magnitude Unit vador of Daids each component by the soful of sum of square regaliste 12/13/14/15/172 (10) : 10 Unit 6:00 viela: 11:0 0.5 0.5 0.5 7/10 0.5 19 11901 por To 14 (vinto o (1,1), (2,2), (3,4) construct a matrix with rows on paint & cohemns as dimension of space. MT, M = [1 2 3] [1] = [14] = [17 2!

