

0 0 -12 1 7

A= LY A·x=C [A][x]=[c] [LJENJ[X]=[C] 2 1/241 + 542 + 43= 2 3 -4 - 76 1 3y1 - 4y2 - 7/643 + 44 = 0 -1/2 + y2 = 1 y2 = 3/2 1/2(-1) +5(3/2)+43=2 -1/2 +15/2 +1/3 = Z 3(-1)-4(3/2)-7/6(-5)+44=0 -3-6+35 +44=0 -9 + 35 +y4=0 - 54 + 35 +y4 =0 -19 +44 = 0 44 = 196 1/2×2+5/2×3=3/2

PROBLEM 4: LU DECOMPOSITION