Problem Set 1.3 Jet (K4) = 5  $= \begin{bmatrix} 1 & 0 & 0 & 0 \\ -1/2 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 2 & 0 & 0 & 0 \\ 0 & 3/2 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & -1/2 & 0 & 0 \\ 0 & 1 & -2/3 & 0 \end{bmatrix}$ -1/2100 004/30 00 7-3/4 0-4310005/40001 2 PK(i)= (i+1) + ith pivot of K 3.  $i,j \rightarrow (3,2) - (2/3)$ (5) A=[27] > Pivots=2,7,6; Pivots = 2,7) 6Kgx > 1 fiagonal=5 = 13 items + 2 upper/lower fiag=8 DEX5) >1 tragonal =5 hor -zero L(545) -> 1 tiagonal = 5 = 9 hon-zero 140 wer tiag = 4 = 9 items F A(mxn), A (nxm), C(mxm) = symmetric 1. (ATCA)T = ATCT(AT)T = ATCA = symmetric (hxm).(mxn) = (hxn) 2. On fiagonal we have squared items! can't be negative!

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