Homework 1

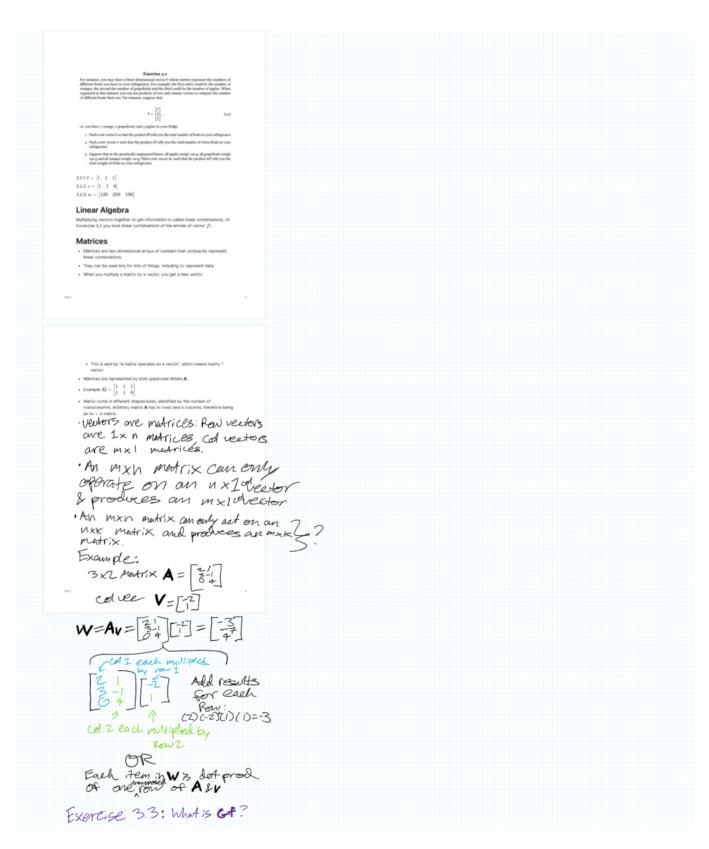
Tuesday, September 22, 2020 10:32 AM

I accidentally deleted this HW from OneNote, so here is a re-imported version from the PDF uploaded to Canvas.

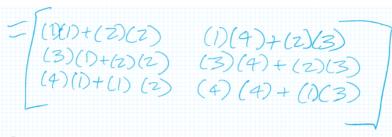


Ari_Porad_QEA_HW 1





when mutifying generic metrecies A (mxn) and y (nx) to set w (nx) each element w; = a; + 42 + a; 242 +... = 5 0 0 1 4 1 Adding, Subtracting & transposing Addition & Subtraction are done element-wise smust be same size A=[32] B=[56] A-B=[1-5 2-6]-[4-4] Multiplines by a scalar jost multiplies Cach clement: 3A = [3 6] Transposing: [123] T = [14] 456] = [25] Important identity: (AU)T = ATUT Exercises 3.5) A= [3 417 B=[223] 4A-5B=[12 164]-[5 1615]



Exi Each col of B is a vector, multiply each by A, each output is a col of C

NB: Mutrix miliplication isn't commutative: AB &BA

However, it is Distributive:

A(B+C)=AB+AC

(B+C)A=BA+CA

For speare matricies, expenents work?

Exercises $A = \begin{bmatrix} -2 & 4 \\ 0 & 3 \end{bmatrix} B = \begin{bmatrix} -5 & -3 \\ -1 \end{bmatrix} C = \begin{bmatrix} -5 & -1 \\ -3 & 2 \end{bmatrix}$ $3.8: AB = \begin{bmatrix} (-2)(5) + (4)(-1) & (-2)(-3) + (4)(-1) \\ (0)(5) + (3)(-1) & (0)(-3) + (3)(-1) \end{bmatrix}$ $= \begin{bmatrix} -14 & 2 \\ -3 & -3 \end{bmatrix}$ $3.9: BA = \begin{bmatrix} (-2)(-1) + (-3)(0) & (-5)(4) + (-3)(3) \end{bmatrix}$

$$3.9:BA = [(5)(2) + (3)(0) (5)(4) + (3)(3)]$$

$$= \begin{bmatrix} -10 & 11 \\ 2 & -7 \end{bmatrix}$$

$$3.10:A(B+C) = A \begin{bmatrix} 0 & -4 \\ -4 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} -22(0) + (4)(-4) & (-2)(-4) + (4)(1) \\ (0)(0) + (3)(-4) & (0)(-4) + (3)(0) \end{bmatrix}$$

$$= \begin{bmatrix} -16 & 12 \\ -12 & 3 \end{bmatrix}$$

$$3.11:AB + AC = \begin{bmatrix} -2 & 4 \\ -3 & -3 \end{bmatrix} + \begin{bmatrix} -2 & 4 \\ -9 & 6 \end{bmatrix}$$

$$= \begin{bmatrix} -16 & 12 \\ -12 & 3 \end{bmatrix}$$

$$= \begin{bmatrix} -16 & 12 \\ -3 & -3 \end{bmatrix} + \begin{bmatrix} -2 & 4 \\ -9 & 6 \end{bmatrix}$$

$$= \begin{bmatrix} -16 & 12 \\ -12 & 3 \end{bmatrix}$$
Some \(\text{3.12:} \)
$$1 A^2 = \begin{bmatrix} -24 \\ 0 & 3 \end{bmatrix} \begin{bmatrix} -2 & 4 \\ 0 & 3 \end{bmatrix} \begin{bmatrix} -2 & 4 \\ 0 & 3 \end{bmatrix}$$

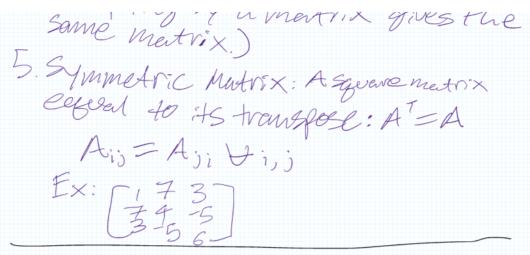
Honowesk Page

13.3)

- 1. Square Metrix [of order n]: an nxn metrix (senne # of vowseowns)
- 2. Reetangelar Mestrix: any non-square Mestrix
- 3. Diagonal Matrix: a Cosvally Square)
 Mentrix where all values not on the
 Mein diagonal (top left > bottom, right)
 ave zero. The diagonal values may,
 but need not, be equal to each other.

 Ex: [190]
- 4. Identity Matrix: A diagonal matrix where all nonzero values are I. May be of any 5. Ze, often inferred from context. Denoted as I, 1, or In For A mxn: Im A = AIn = A Chultiplying by a matrix gresthe same matrix.)

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There are well-known matricies that do specific transformations on spacial vectors.

Exercise 3.(4:

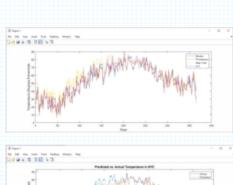
1) M = [333]

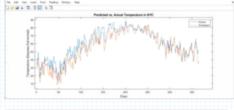
2) [350]

3) [abo]

Exercise 3.16:

- 1. T is 4x7670. Each city is one row, each column represents one sample.
- 2. Done, dimensions are right.







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                                  Columns 181 through 195
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                                         Columna 211 Uniough 225
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                           #3,200 | $1,400 | $1,600 | $4,700 | $4,200 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,100 | $1,
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