

## MATH 2J – WINTER 2010

Matrix w/ no solns. =

inconsistent

at least 1 soln = consistent

### Elementary Row Op

- Interchange rows

- Multiply row  $c \neq 0$

- Sum of multiple

### Reduced Row Echelon Form

- 1<sup>st</sup> nonzero in row is 1

- following row has more 0's

- row w/ all zeros at bottom

- 1<sup>st</sup> entry  $\neq 0$  in row is only

entry  $\neq 0$  in column

Overdetermined: eqs  $> ??$

Underdetermined: eqs  $< ??$

### Arithmetic

1.  $\alpha A = \alpha \alpha_i$

2.  $A + B = B + A$

3.  $(A + B) + C = A + (B + C)$

4.  $(AB)C = A(BC)$

5.  $A(B + C) = AB + AC$

6.  $(A + B)C = AC + BC$

7.  $(\alpha\beta)A = \alpha(\beta A)$

8.  $\alpha(AB) = (\alpha A)B = A(\alpha B)$

9.  $(\alpha + \beta)A = \alpha A + \beta A$

10.  $\alpha(A + B) = \alpha A + \alpha B$

11.  $A^n = \begin{pmatrix} 2^{n-1} & 2^{n-1} \\ 2^{n-1} & 2^{n-1} \end{pmatrix}$

### Symmetric Matrix

$A^T = A$

### Singularity

$A$  = nonsingular/invertible

if exist  $A^{-1}$  such that  $A^{-1}A =$

$AA^{-1} = I$

### Algebraic Rules: Transposes

1.  $(A^T)^T = A$

2.  $(\alpha A)^T = \alpha A^T$

3.  $(A + B)^T = A^T + B^T$

4.  $(AB)^T = B^T A^T$

### Partitioned Matrix

1.

$A \begin{bmatrix} B_1 & B_2 \end{bmatrix} = \begin{bmatrix} AB_1 & AB_2 \end{bmatrix}$

2.  $\begin{bmatrix} A_1 \\ A_2 \end{bmatrix} B = \begin{bmatrix} AB_1 \\ AB_2 \end{bmatrix}$

3.

$\begin{bmatrix} A_1 & A_2 \end{bmatrix} \begin{bmatrix} B_1 \\ B_2 \end{bmatrix} = A_1 B_1 + A_2 B_2$

### Elementary Matrixes ( $E_i$ )

Computing  $A^{-1}$ :  $(A|I) \rightarrow$  row ops to both sides  $\rightarrow (I|A^{-1})$

Upper  $\Delta$  (U) =  $\begin{bmatrix} x & x & x \\ 0 & x & x \\ 0 & 0 & x \end{bmatrix}$

Lower  $\Delta$  (L) =  $\begin{bmatrix} x & x & x \\ 0 & x & x \\ 0 & 0 & x \end{bmatrix}$

$A = L \times U$

STEPS:  $A \rightarrow U = E^{-1} \dots U$

$E^{-1} \dots = L$

For every row op done on each  $E$ , do reverse for same row and column in new matrix "L", but apply only to digits under

diagonal that was transformed to a zero.

### Determinants

$A_{ij}$  (cofactor) =

$(-1)^{i+j} \det(M_{ij})$

Thm: If row/column all zeros,

$\det(A) = 0$

If identical

row/columns,  $\det(A) = 0$

$\det(AB) = \det(A)\det(B)$

$\det(A^{-1}) = \frac{1}{\det(A)}$

### Types

1. Interchanging two rows/columns change sign

2. Multiplying row/column by scalar  $\alpha = \alpha \det(A)$

3. Adding multiple of row/column has no effect

### Adjoint of a Matrix

$\text{adj } A = (A_{ii}, A_{ii} \dots)^T$  take cofactor of each digit, then transpose

$A^{-1} = \frac{1}{\det(A)} \text{adj } A$

### Cramer's Rule

$x_i = \frac{\det(A_i)}{\det(A)}$

STEPS:  $A_i$  obtained by replacing  $i$ th column of  $A$  by  $b$  (solution)

### Eigenvalues/Eigenvectors

1.  $\lambda$  is eigenvalue of  $A$

2.  $(A - \lambda I)x = 0$  has nontrivial soln.

3.  $N(A - \lambda I)x \neq \{0\}$

# Linear Algebra For Dummies Cheat Sheet

**Sasha Hu**



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