

Math 290

Monday March 8

Problem Session

FS. MSO

A nonsingular

$$[A | I_n] \xrightarrow{\text{RREF}} [I_n | A^{-1}]$$

\swarrow w zero rows
 NM RRI
 CINM

$C = A$ L is a matrix w/ no rows
 $0 \times n$ matrix

$$N(A) = N(C) = \{0\}$$

$$R(A) = R(C) = R(A) = C(A^t) = \mathbb{R}^n$$

$$C(A) = N(L) = \mathbb{R}^n$$

Solutions to LS($L, 0$)
 to $L \underline{x} = \underline{0}$
 $0 \times n \quad n \times 1 \quad 0 \times 1$

Tue - Exam M
 Envelopes / Laptops

Thu - VS (RQ)

Fri - S
 BYOB - TV shows

$L(A) = R(L) =$ all linear combinations of a no-row matrix

$$L(A) = \{0\} = \{0\}$$

$$\sum_{i=1}^{10} i^2 = 1^2 + 2^2 + \dots + 10^2$$

$$\sum_{i=1}^{10} i^2 = \sum_{i=1}^7 i^2 + \sum_{i=8}^{10} i^2$$

$\sum_{i=1}^{10} i^2 = \sum_{i=1}^{10} i^2 + \sum_{i=11}^{10} i^2$
 empty sum