

$$A = \begin{bmatrix} 1 & 0 & 5 & 1 & 8 & 4 \\ 0 & 1 & 7 & 4 & 0 & 3 \\ 0 & 0 & 0 & 1 & 1 & 3 \end{bmatrix}$$

$$\xrightarrow{rr} A_{rr} = \begin{bmatrix} 1 & 0 & 5 & 0 & 9 & 1 \\ 0 & 1 & 7 & 0 & 4 & -9 \\ 0 & 0 & 0 & 1 & 1 & 3 \end{bmatrix}$$

basic variables:  $x_1, x_2, x_4$

free variables:  $x_3, x_5$

1<sup>st</sup> row:  $x_1 + 5x_3 + 9x_5 = 1 \Rightarrow x_1 = 1 - 5x_3 - 9x_5$

2<sup>nd</sup> row:  $x_2 + 7x_3 + 4x_5 = -9 \Rightarrow x_2 = -9 - 7x_3 + 4x_5$

# Matrix Algebra Problems And Solutions

**Alston Scott Householder**



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