

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

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

basic variables: x_1, x_2, x_4

free variables: x_3, x_5

1st row: $x_1 + 5x_3 + 9x_5 = 1 \Rightarrow x_1 = 1 - 5x_3 - 9x_5$

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

Matrix Algebra Problems And Solutions

L Darling-Hammond



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