

Linear Algebra Practice Midterm 1
Spring 2019

1. Let

$$A = \begin{pmatrix} -2 & 3 & -3 & -1 \\ 4 & 1 & 13 & -5 \end{pmatrix}$$

and consider the homogeneous system $A\mathbf{x} = \mathbf{0}$, where $\mathbf{x} \in \mathbb{R}^4$ and $\mathbf{0} \in \mathbb{R}^2$.

(a) Compute $\text{rref}(A \mid \mathbf{0})$.

Solution:

$$\text{rref}(A \mid \mathbf{0}) = \left(\begin{array}{cccc|c} 1 & 0 & 3 & -1 & 0 \\ 0 & 1 & 1 & -1 & 0 \end{array} \right)$$

(b) Identify the pivot columns \mathbf{b}_j in $B = \text{rref}(A \mid \mathbf{0})$.

Solution: Let $B = \text{rref}(A \mid \mathbf{0})$. Then the pivot columns of B are

$$\mathbf{b}_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \quad \text{and} \quad \mathbf{b}_2 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

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