

Project One Template

MAT350: Applied Linear Algebra

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Date : 9/18/2022

Problem 1

Develop a system of linear equations for the network by writing an equation for each router (A, B, C, D, and E). Make sure to write your final answer as $Ax=b$ where A is the 5×5 coefficient matrix, x is the 5×1 vector of unknowns, and b is a 5×1 vector of constants.

Solution:

$$\text{Node A} = 2x_1 + x_2 = 100$$

$$\text{Node B} = x_1 + x_2 - x_3 - x_5 = 0$$

$$\text{Node C} = x_1 - x_3 - x_5 = 50$$

$$\text{Node D} = -x_2 + x_4 + x_5 = 120$$

$$\text{Node E} = x_2 + x_3 - x_4 + x_5 = 0$$

$$Ax = b$$

$$A = [2 \ 1 \ 0 \ 0 \ 0; \ 1 \ 1 \ -1 \ 0 \ -1; \ -1 \ 0 \ 1 \ 0 \ 1; \ 0 \ -1 \ 0 \ 1 \ 1; \ 0 \ 1 \ 1 \ -1 \ 1]$$

$$x = [x_1; x_2; x_3; x_4; x_5]$$

$$b = [100; 0; -50; 120; 0]$$

Problem 2

Use MATLAB to construct the augmented matrix $[A \ b]$ and then perform row reduction using the `rref()` function. Write out your **reduced matrix** and identify the **free** and **basic variables** of the system.

Solution:

$$A = [2 \ 1 \ 0 \ 0 \ 0; \ 1 \ 1 \ -1 \ 0 \ -1; \ -1 \ 0 \ 1 \ 0 \ 1; \ 0 \ -1 \ 0 \ 1 \ 1; \ 0 \ 1 \ 1 \ -1 \ 1]$$

$$A = \begin{bmatrix} 2 & 1 & 0 & 0 & 0 \\ 1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 1 & 1 & -1 & 1 \end{bmatrix}$$

$$b = [100; 0; -50; 120; 0]$$

$$b = \begin{bmatrix} 100 \\ 0 \\ -50 \\ 120 \\ 0 \end{bmatrix}$$

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