|  |
| --- |
| %% Lab 4: Mesh and Nodal Analysis  % Exercise 5  %     V1 V2 V3 V4 Vx Ix  A = [ 2  -2  3 -2  0  0; % SNE        1   0 -1  0  0  0; % SNI        0   1  0  0  2  0; % V2 Vx       -1   0 -1  3 -1 -2; % V4        0   0  1  0  0 -1; % Ix        0   0  0 -1  2  0; % Vx      ];      x = [ 6; % SNE       12; % SNI        0; % V2-Vx        0; % V4        0; % Ix       -6];% Vx |

Table : Matlab Code for Exercise XX

|  |  |
| --- | --- |
| Name | Value |
|  | 150.2609 V |
|  | 31.3043 V |
|  | -162.7826 V |

Table : Nodal Analysis Results

|  |  |
| --- | --- |
| Name | Value |
|  | -32.3 mA |
|  | -12.5 mA |
|  | -20.3 mA |
|  | 31.3 V |

Table 3: Mesh Analysis Results

Nodal Equations:

Dependent Source 1:

SNI:

SNE: