

$$2. \quad B = \begin{bmatrix} 2 & -1 \\ 1 & 3 \end{bmatrix} \quad \{H, E\} = 6V, \quad \{E, I\} = 1V$$

$$\det = (2 \times 3) - (-1 \times 1) = 6 + 1 = 7$$

$$\text{ADJ} = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$$

$$B' = \frac{1}{\det} \times \text{ADJ}$$

$$= \frac{1}{7} \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$$

$$= \begin{bmatrix} 3/7 & 1/7 \\ -1/7 & 2/7 \end{bmatrix}$$

$$= \begin{bmatrix} 0.4285714285714286 & 0.1428571428571429 \\ -0.1428571428571429 & 0.2857142857142857 \end{bmatrix}$$

$$= \begin{bmatrix} 0.4285714285714286 & 0.1428571428571429 \\ -0.1428571428571429 & 0.2857142857142857 \end{bmatrix}$$

$$8 \neq 6 =$$

$$11 =$$

$$\sqrt{8+6} = 1.41$$

$$\sqrt{8+6} = 1.41$$

$$\left( \frac{6V \cdot 1V}{1.41 \cdot 1.41} \right)^{1/2} = 2.0$$

$$6 \cdot 6 = 36$$

$$\begin{bmatrix} 1 & 6 \\ 6 & 1 \end{bmatrix} = 0$$

$$0.1428571428571429$$

$$0.2857142857142857$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} - \begin{bmatrix} 1 & 6 \\ 6 & 1 \end{bmatrix} = 1A - 0$$