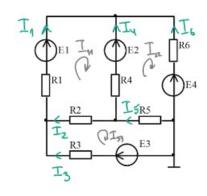
Electronics HW 2

Status	ready
class	Electronics
due date	@September 23, 2021

Хаецкая Дарья 19202



$$= \begin{cases} 30 \ I_{11} - 15 I_{22} - 5 I_{33} = -10 \\ 40 I_{21} - 15 I_{11} - 10 I_{33} = -5 \end{cases} \Rightarrow \begin{cases} 6 I_{11} - 3 I_{22} - I_{33} = -1 \\ -3 I_{11} + 8 I_{22} - 1 I_{33} = -1 \\ -I_{11} - 2 I_{22} + 4 I_{33} = 3 \end{cases}$$

Матриуа:
$$\begin{pmatrix} 6 & -3 & -1 & -1 \\ -3 & 8 & -1 & -1 \\ -1 & -2 & 4 & 3 \end{pmatrix}$$
 Решение методом Обратной м $A \cdot X = B$ $A = \begin{pmatrix} 6 & -3 & -1 \\ -3 & 8 & -2 \\ -1 & -2 & 4 \end{pmatrix}$ $A \cdot X = B$ $A = \begin{pmatrix} 6 & -3 & -1 \\ -3 & 8 & -2 \\ -1 & -2 & 4 \end{pmatrix}$ $A \cdot X = B$ $A = \begin{pmatrix} 6 & -3 & -1 \\ -3 & 8 & -2 \\ -1 & -2 & 4 \end{pmatrix}$ $A \cdot X = B$ $A = \begin{pmatrix} 6 & -3 & -1 \\ -3 & 8 & -2 \\ -1 & -2 & 4 \end{pmatrix}$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X = A$ $A \cdot X = A$ $A \cdot X = B$ $A \cdot X = A$ $A \cdot X =$

Решение методом Обратной матрицы
$$A \cdot X = B$$

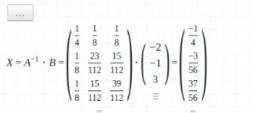
$$A = \begin{pmatrix} 6 & -3 & -1 \\ -3 & 8 & -2 \\ -1 & -2 & 4 \end{pmatrix}$$

$$= \frac{51}{56} A$$

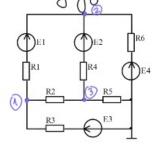
$$= \frac{1}{3} \begin{pmatrix} \frac{1}{4} & \frac{1}{8} & \frac{1}{8} \\ \frac{1}{8} & \frac{23}{112} & \frac{15}{112} \\ \frac{1}{8} & \frac{15}{112} & \frac{39}{112} \end{pmatrix}$$

$$= \frac{11}{56} A$$

$$= \frac{11}{$$



Electronics HW 2



 $X = A^{-1} \cdot B = \begin{pmatrix} \frac{365}{112} & \frac{225}{112} & \frac{15}{7} \\ \frac{225}{112} & \frac{645}{112} & \frac{15}{7} \\ \frac{15}{15} & \frac{15}{30} & \frac{30}{12} \end{pmatrix} \cdot \begin{pmatrix} 2 \\ 4 \\ \frac{-4}{3} \end{pmatrix} = \begin{pmatrix} \frac{655}{56} \\ \frac{1355}{56} \\ \frac{50}{50} \end{pmatrix}$

miro