

Inverzní matice

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Obsah

Najděte A^{-1}	3
Najděte A^{-1}	15

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right)$$

Zapíšeme matici A a jednotkovou matici vedle sebe.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ & & & & & \\ & & & & & \end{array} \right)$$

Druhý řádek volíme jako klíčový, protože číslo -1 je vhodnější pro vytváření nul než čísla 6 a 2 . Klíčový řádek píšeme jako první.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \xrightarrow[6]{} \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 \end{array} \right)$$

Upravíme prvek $a_{11} = 6$ na nulu.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \xrightarrow[2]{} \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right)$$

Upravíme prvek $a_{31} = 2$ na nulu.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{cc|cc} 0 & 1 & 0 & 0 \\ 0 & 2 & 1 & 1 \\ 0 & 1 & 0 & 0 \end{array} \right)$$

Nový klíčový řádek bude třetí řádek. Napíšeme jej jako druhý v pořadí.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right) \xrightarrow{(-1)}$$
$$\sim \left(\begin{array}{ccc|ccc} -1 & 0 & 3 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right)$$

Upravíme prvek $a_{12} = 1$ na nulu.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right) \xrightarrow{(-2)}$$
$$\sim \left(\begin{array}{ccc|ccc} -1 & 0 & 3 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right)$$

Upravíme prvek $a_{22} = 2$ na nulu.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} -1 & 0 & 3 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} & & & 1 & 2 & -2 \\ 0 & 0 & 1 & | & 1 & 2 & -2 \end{array} \right)$$

Nový klíčový řádek bude řádek poslední.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} -1 & 0 & 3 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right)$$

Druhý řádek zůstane, má nulu na místě a_{23} .

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} -1 & 0 & 3 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right) \xrightarrow[3]{(-1)} \left(\begin{array}{ccc|ccc} 1 & 0 & 0 & 3 & 7 & -5 \\ 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right)$$

Upravíme prvek $a_{13} = 3$ na nulu.

K dané matici A určete matici inverzní A^{-1} .

$$A = \begin{pmatrix} 6 & -4 & -17 \\ -1 & 1 & 3 \\ 2 & -1 & -6 \end{pmatrix}$$

$$\left(\begin{array}{ccc|ccc} 6 & -4 & -17 & 1 & 0 & 0 \\ -1 & 1 & 3 & 0 & 1 & 0 \\ 2 & -1 & -6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} -1 & 1 & 3 & 0 & 1 & 0 \\ 0 & 2 & 1 & 1 & 6 & 0 \\ 0 & 1 & 0 & 0 & 2 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} -1 & 0 & 3 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 1 & 0 & 0 & 3 & 7 & -5 \\ 0 & 1 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 1 & 2 & -2 \end{array} \right)$$

$$A^{-1} = \begin{pmatrix} 3 & 7 & -5 \\ 0 & 2 & 1 \\ 1 & 2 & -2 \end{pmatrix}$$

Matice vlevo je ve schodovitém tvaru a inverzní matice je tedy napravo.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix}$$

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$

Začneme se zadanou maticí a s 3×3 jednotkovou maticí.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|cc} 1 & -1 & 1 & 0 & 1 & 0 \end{array} \right)$$

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right) \xrightarrow{(-1)}$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \end{array} \right)$$

Upravíme $a_{11} = 1$ na nulu.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right) \xrightarrow{(-1)}$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 \end{array} \right)$$

Upravíme $a_{31} = 1$ na nulu.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} & & & 1 & -1 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ & & & 1 & -1 & 0 \end{array} \right)$$

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & 2 & 1 \end{array} \right)$$

Upravíme $a_{12} = -1$ na nulu.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 1 \\ 0 & 3 & 5 & 0 & -1 & 1 & 1 \end{array} \right) \xrightarrow{(-3)} \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 0 \\ 0 & 0 & -4 & -3 & 2 & 1 & 1 \end{array} \right)$$

Upravíme prvek $a_{32} = 3$ na nulu.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|cc|c} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 & 0 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 0 \\ \textcolor{red}{0} & \textcolor{red}{0} & \textcolor{red}{-4} & \textcolor{red}{-3} & \textcolor{red}{2} & \textcolor{red}{1} & 0 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} & & & & & & \\ 0 & 0 & 4 & 3 & -1 & -1 & \end{array} \right)$$

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 & 0 \end{array} \right) \sim \left(\begin{array}{ccc|cccc} 1 & 0 & 4 & 1 & 0 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 0 \\ \textcolor{red}{0} & \textcolor{red}{0} & \textcolor{red}{-4} & \textcolor{red}{-3} & \textcolor{red}{2} & \textcolor{blue}{1} & 4 \end{array} \right) \begin{matrix} \\ \\ \end{matrix} \begin{matrix} 4 \\ 3 \end{matrix}$$
$$\sim \left(\begin{array}{ccc|ccc} \textcolor{blue}{0} & \textcolor{blue}{4} & \textcolor{blue}{0} & \textcolor{blue}{-5} & \textcolor{blue}{2} & \textcolor{blue}{3} \\ 0 & 0 & 4 & 3 & -1 & -1 \end{array} \right)$$

Upravíme $a_{23} = 3$ na nulu.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 0 & -4 & -3 & 2 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & 0 & 0 & -2 & 2 & 1 \\ 0 & 4 & 0 & -5 & 2 & 3 \\ 0 & 0 & 4 & 3 & -1 & -1 \end{array} \right)$$

Upravíme prvek $a_{13} = 4$ na nulu.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \quad \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 \\ 0 & 0 & -4 & -3 & 2 & 1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & 0 & 0 & -2 & 2 & 1 \\ 0 & 4 & 0 & -5 & 2 & 3 \\ 0 & 0 & 4 & 3 & -1 & -1 \end{array} \right)$$
$$\sim \left(\begin{array}{ccc|ccc} 1 & 0 & 0 & -2 & 2 & 1 \\ 0 & 1 & 0 & -5/4 & 2/4 & 3/4 \\ 0 & 0 & 1 & 3/4 & -1/4 & -1/4 \end{array} \right)$$

Vydělíme.

K dané matici A najděte matici inverzní A^{-1} .

$$A = \begin{pmatrix} 1 & 0 & 4 \\ 1 & -1 & 1 \\ 1 & 2 & 6 \end{pmatrix} \sim \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 0 \\ 0 & 3 & 5 & 0 & -1 & 1 & 0 \end{array} \right) \sim \left(\begin{array}{ccc|ccc} 1 & 0 & 4 & 1 & 0 & 0 \\ 0 & 1 & 3 & 1 & -1 & 0 & 0 \\ 0 & 0 & 4 & -3 & 2 & 1 & 0 \end{array} \right)$$

Inverzní matice vznikla v pravé polovině. Z této matice lze vytknout společný jmenovatel $\frac{1}{4}$.

$$\sim \left(\begin{array}{ccc|ccc} 1 & 0 & 0 & -2 & 2 & 1 \\ 0 & 1 & 0 & -5/4 & 2/4 & 3/4 \\ 0 & 0 & 1 & 3/4 & -1/4 & -1/4 \end{array} \right);$$

$$A^{-1} = \frac{1}{4} \begin{pmatrix} -8 & 8 & 4 \\ -5 & 2 & 3 \\ 3 & -2 & -1 \end{pmatrix}$$

KONEC