

Převod matice na schodovitou

$$\begin{pmatrix} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \end{pmatrix}$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \textcolor{green}{\bullet} & \bullet & \bullet & \bullet & \bullet & \bullet \\ \textcolor{green}{\bullet} & \bullet & \bullet & \bullet & \bullet & \bullet \\ \textcolor{red}{\bullet} & \bullet & \bullet & \bullet & \bullet & \bullet \\ \textcolor{green}{\bullet} & \bullet & \bullet & \bullet & \bullet & \bullet \\ \textcolor{green}{\bullet} & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \textcolor{green}{\bullet} & \bullet & \bullet \\ 0 & 0 & 0 & \textcolor{green}{\bullet} & \bullet & \bullet \\ 0 & 0 & 0 & \textcolor{green}{\bullet} & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \textcolor{red}{\bullet} & \bullet & \bullet \\ 0 & 0 & 0 & \textcolor{green}{\bullet} & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & \bullet & \bullet \\ 0 & 0 & 0 & 0 & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & \bullet & \bullet \\ 0 & 0 & 0 & 0 & \bullet & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & \bullet \\ 0 & 0 & 0 & 0 & 0 & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & \textcolor{green}{\bullet} \\ 0 & 0 & 0 & 0 & 0 & \bullet \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & \textcolor{red}{\bullet} \\ 0 & 0 & 0 & 0 & 0 & \textcolor{green}{\bullet} \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & \bullet \\ 0 & 0 & 0 & 0 & 0 & 0 \end{array} \right)$$

Převod matice na schodovitou

$$\left(\begin{array}{cccccc} \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & \bullet \\ 0 & 0 & 0 & 0 & 0 & 0 \end{array} \right)$$

Výpočet inverzní matice

$$h(\mathbb{A}) = n$$

\mathbb{A}

\mathbb{I}

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet & \bullet & \bullet & 1 & 0 & 0 & 0 \\ \bullet & \bullet & \bullet & \bullet & 0 & 1 & 0 & 0 \\ \bullet & \bullet & \bullet & \bullet & 0 & 0 & 1 & 0 \\ \bullet & \bullet & \bullet & \bullet & 0 & 0 & 0 & 1 \end{array} \right)$$

Výpočet inverzní matice

$$h(\mathbb{A}) = n$$

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Výpočet inverzní matice

$$h(\mathbb{A}) = n$$

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Výpočet inverzní matice

$$h(\mathbb{A}) = n$$

$$\mathbb{A} \rightsquigarrow \mathbb{S}'$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}'$$

$$\left(\begin{array}{cccc|c} 1 & \bullet & \bullet & \bullet & \vdots \\ 0 & 1 & \bullet & \bullet & \vdots \\ 0 & 0 & 1 & \bullet & \vdots \\ 0 & 0 & 0 & 1 & \end{array} \right)$$

Výpočet inverzní matice

$$h(\mathbb{A}) = n$$

$$\mathbb{A} \rightsquigarrow \mathbb{S}''$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}''$$

$$\left(\begin{array}{cccc|cccccc} 1 & \bullet & \bullet & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 1 & \bullet & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 1 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 1 & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Výpočet inverzní matice

$$h(\mathbb{A}) = n$$

$$\mathbb{A} \rightsquigarrow \mathbb{S}'''$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}'''$$

$$\left(\begin{array}{cccc|cccc} 1 & \bullet & 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 1 & 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 1 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 1 & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

Výpočet inverzní matice

$$h(\mathbb{A}) = n$$

$$\mathbb{A} \rightsquigarrow \mathbb{S}''' \rightsquigarrow \mathbb{I}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}''' \rightsquigarrow \mathbb{A}^{-1}$$

$$\left(\begin{array}{cccc|cccc} 1 & 0 & 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 1 & 0 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 1 & 0 & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 1 & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

\mathbb{A} regulární $\Rightarrow h(A) = n$

$h(\mathbb{A}) < n$ a \mathbb{A} je regulární

\mathbb{A}

\mathbb{I}

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet & \bullet & \bullet & 1 & 0 & 0 & 0 \\ \bullet & \bullet & \bullet & \bullet & 0 & 1 & 0 & 0 \\ \bullet & \bullet & \bullet & \bullet & 0 & 0 & 1 & 0 \\ \bullet & \bullet & \bullet & \bullet & 0 & 0 & 0 & 1 \end{array} \right)$$

$$\mathbb{A} \cdot \mathbb{A}^{-1} = \mathbb{I}$$

\mathbb{A} regulární $\Rightarrow h(A) = n$

$h(\mathbb{A}) < n$ a \mathbb{A} je regulární

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

$$\mathbb{A} \cdot \mathbb{A}^{-1} = \mathbb{I}$$

\mathbb{A} regulární $\Rightarrow h(A) = n$

$h(\mathbb{A}) < n$ a \mathbb{A} je regulární

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & \textcolor{red}{0} & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

$$\mathbb{A} \cdot \mathbb{A}^{-1} = \mathbb{I}$$

\mathbb{A} regulární $\Rightarrow h(A) = n$

$h(\mathbb{A}) < n$ a \mathbb{A} je regulární

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & \bullet & \bullet & \bullet & \bullet \end{array} \right)$$

$$\mathbb{A} \cdot \mathbb{A}^{-1} = \mathbb{I} \Rightarrow \mathbb{S} \cdot \mathbb{A}^{-1} = \mathbb{B}$$

\mathbb{A} regulární $\Rightarrow h(A) = n$

$h(\mathbb{A}) < n$ a \mathbb{A} je regulární

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array} \right)$$

$$\mathbb{A} \cdot \mathbb{A}^{-1} = \mathbb{I} \Rightarrow \mathbb{S} \cdot \mathbb{A}^{-1} = \mathbb{B}$$

\mathbb{A} regulární $\Rightarrow h(A) = n$

$h(\mathbb{A}) < n$ a \mathbb{A} je regulární

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B}$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array} \right)$$

$$\mathbb{A} \cdot \mathbb{A}^{-1} = \mathbb{I} \Rightarrow \mathbb{S} \cdot \mathbb{A}^{-1} = \mathbb{B} \Rightarrow h(B) < n$$

\mathbb{A} regulární $\Rightarrow h(A) = n$

$h(\mathbb{A}) < n$ a \mathbb{A} je regulární

$$\mathbb{A} \rightsquigarrow \mathbb{S}$$

$$\mathbb{I} \rightsquigarrow \mathbb{B} \Rightarrow h(\mathbb{B}) = n$$

$$\left(\begin{array}{cccc|cccc} \bullet & \bullet \\ 0 & \bullet \\ 0 & 0 & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array} \right)$$

$$\mathbb{A} \cdot \mathbb{A}^{-1} = \mathbb{I} \Rightarrow \mathbb{S} \cdot \mathbb{A}^{-1} = \mathbb{B} \Rightarrow h(\mathbb{B}) < n$$