

Násobení a transpozice matic

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 0 \\ 0 & 0 & 1 & 3 \\ 3 & 1 & 2 & 0 \end{pmatrix} \quad \mathbf{B} = \begin{pmatrix} 1 & 2 \\ 0 & 3 \\ 2 & 0 \\ 0 & 1 \end{pmatrix} \quad \mathbf{A}^T = \begin{pmatrix} 1 & 0 & 3 \\ 2 & 0 & 1 \\ 4 & 1 & 2 \\ 0 & 3 & 0 \end{pmatrix} \quad \mathbf{B}^T = \begin{pmatrix} 1 & 0 & 2 & 0 \\ 2 & 3 & 0 & 1 \end{pmatrix}$$

AB	1 2
	0 3
	2 0
	0 1
1 2 4 0	9 8
0 0 1 3	2 3
3 1 2 0	7 9

$$\mathbf{AB} = \begin{pmatrix} 9 & 8 \\ 2 & 3 \\ 7 & 9 \end{pmatrix}$$

B^TA^T	1 0 3
	2 0 1
	4 1 2
	0 3 0
1 0 2 0	9 2 7
2 3 0 1	8 3 9

$$\mathbf{B}^T \mathbf{A}^T = \begin{pmatrix} 9 & 2 & 7 \\ 8 & 3 & 9 \end{pmatrix}$$