

Exercises

18.20 [1MQ] Let

$$A = \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix}, \quad B = \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix} \quad :$$

compute

$$\exp(A)\exp(B), \quad \exp(B)\exp(A), \quad \exp(A+B) \quad ;$$

You will get that they are all different from each other.

Solution 1. [1MR]