## Exercises

E18.28 [1MT] Difficulty:\*. Show that

$$det(exp(A)) = exp(tr(A)) \quad .$$

Hint: use Jacobi's formula [1V2] to calculate the derivative of det(exp(tA)). Use the previous result [1MK] — see also [1T3]. Another proof can be obtained by switching to Jordan's form (using [1MJ]).

## Solution 1. [1MV]