## Mini report #1 (Advanced Automation) 2021.11.4

Student #:	Name:	

## [NOTICE]

- write by hand
- due date: 2021/11/10 17:00; place of submission: Ilias
- don't answer in approximated values (write  $\sqrt{2}$  instead of 1.4142, for example)

Let M be a matrix given as:

$$M = \begin{bmatrix} j & 0 \\ j & 1 \end{bmatrix}.$$

Answer the followings:

- (1)  $\bar{M}$
- (2) M\*
- **(3)** *M*\**M*
- **(4)**  $\lambda_i(M^*M)$
- **(5)**  $\sigma_i(M)$
- **(6)**  $\bar{\sigma}(M)$