Mini report #1 (Advanced Automation) 2022.11.10

Student #:	Name:	

[NOTICE]

- write by hand
- ullet due date: 2022/11/16 17:00; place of submission: room 405 @ Dept. Mech. Bldg. 1
- don't answer in approximated values (write $\sqrt{2}$ instead of 1.4142, for example)

Let M be a matrix given as:

$$M = \begin{bmatrix} 1 & 1 \\ \frac{j}{\sqrt{2}} & -\frac{j}{\sqrt{2}} \end{bmatrix}.$$

Answer the followings:

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