Mini report #1 (Advanced Automation) 2015.11.12

Student #:	Name:	

[NOTICE]

- write by hand
- due date: 2015/11/18 17:00; place of submission: room 405(機械建設 1 号棟 小林)
- check if your answer is correct or not before submission by using Matlab

Let M be a matrix given as:

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

Answer the followings:

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