

Mini exam. #1 (Advanced Automation) 2014.10.30

Student #: _____ Name: _____

[NOTICE]

- Don't talk
 - You can take a look at your notebook, report #1, and web pages of this lecture
 - You can check your answer by using MATLAB
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Let M be a matrix given as:

$$M = \begin{bmatrix} \sqrt{2} & -\sqrt{2}j \\ 0 & 0 \end{bmatrix}.$$

Answer the followings:

(1) \bar{M}

(2) M^*

(3) M^*M

(4) $\lambda_i(M^*M)$

(5) $\sigma_i(M)$

(6) $\bar{\sigma}_i(M)$