| Mini report #1 (Advanced Automation) 2018.11.8 | |
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| Student #: | Name: |
| [NOTICE] | |
| • write by hand | |
| • due date: $2018/11/14$ 17:00; place of s | 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 |
| • don't answer in approximated values (| (write $\sqrt{2}$ instead of 1.4142 ,for example) |
| Let M be a matrix given as: | $M = \begin{bmatrix} 1 & \frac{j}{\sqrt{2}} \\ 1 & -\frac{j}{\sqrt{2}} \end{bmatrix}.$ |
| Answer the followings: | |
| (1) \bar{M} | |
| (2) M* | |
| (3) <i>M</i> * <i>M</i> | |
| | |
| (4) $\lambda_i(M^*M)$ | |
| (5) $\sigma_i(M)$ | |

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