

1. p261 5.1 gives a sample of size 4 from $N_2(\mu, \Sigma)$, $X = \begin{pmatrix} 2 & 8 & 6 & 8 \\ 12 & 9 & 9 & 10 \end{pmatrix}$. Write a report on the test on $H_0 : \mu = \begin{pmatrix} 7 \\ 11 \end{pmatrix}$ using rejection region at the level 0.05. Use SAS as your computation tool.
2. Write the report on the test in 1 using p-value. State your conclusion at the level 0.05. Use SAS as your computation tool.