

1. Exercise 10.4 in the text.
2. Exercise 10.12 in the text. You should use the normal distribution to approximate the binomial (you do not need to use the continuity correction).
3. Exercise 10.14 in the text.
4. Exercise 10.26 in the text.
5. Exercise 9.72 in the text.
6. Guided R exercise.

In this exercise, you will use R functions to carry out your calculations for problem 10.26. You may find the functions `pt` and `qt` to be helpful. These functions give the cumulative probability density and the percentiles of t distributions. In the R console, type the command `?pt` to display information about these functions. Using R, carry out the test and calculate the power of the test assuming $\mu = 240$.