

Problems to be submitted for the Assignment:

- 1) Text book, Chapter 6 Exercise #6.10
- 2) Text book, Chapter 6 Exercise #6.11
[Note that, in this case, the F-test has just 1 degree of freedom in the numerator, so one can convert the F-test to an equivalent t-test. Therefore the power of the test can also be written in terms of a non-central t-distribution. Just write down the expression of the power for each value of the slope. You need not evaluate the integral.]
- 3) Text book, Chapter 6 Exercise #6.18
- 4) Text book, Chapter 6 Exercise #6.24
- 5) Text book, Chapter 7 Exercise #7.9
- 6) Text book, Chapter 6 Exercise #7.12

Try to work on as many of the following Unassigned Problems as possible:

- 1) Text book, Chapter 6 Exercises #6.14, #6.16, #6.19, #6.25 , #7.5, #7.10, #7.11