

## IE241 Engineering Statistics 1 Homework 5

Due date : May 1

1. Solve the following questions in the textbook.

6.14

6.34

6.54

6.81

2. Find the random variable whose moment generating function is as follows.

A.  $\phi_X(t) = e^t$

B.  $\phi_X(t) = e^{2t+2t^2}$

C.  $\phi_X(t) = \frac{1-6t}{14t^2-9t+1}$