Assignment #10

Chapter VII. Problems 7.3.6.

Chapter X. Problems 10.1.8, 10.1.11, 10.1.14 (in this problem, you also need to find the probability function of X), 10.1.18*.

One more problems:

10-A. Suppose X and Y are two independent random variables such that E(X) = -2, Var(X) = 25, E(Y) = 3, and Var(Y) = 4. Let W = 5Y - 6X - 3. Compute E(W), σ_W , $E(X^2)$, $E(Y^2)$, and $E(X^2 - 2XY + 3Y^2)$.

Note: the second midterm will cover the material up to the end of the last week (up to the class of October 24 inclusive).