Math 4610, First part of homework due Monday, May 2

1. Section 6.4: 5,6,15a-c,10 (Hint for 10: use 15a.) Turn in 6,10

2. Compute the covariance of X and Y in Exercise 1, p. 354.

3. Let (X, Y) be uniformly distributed on the triangle $\{(x, y) | x \geq 0, y \geq 0, x + y \leq 1\}$. Compute $\mathrm{Cov}(X, Y)$. Turn in this problem.