Homework #5

Part I:

[1] Suppose that 2 balls are chosen without replacement from an urn containing 5 white and 8 red balls. Let X_i equal 1 if the i-th ball selected is white, and let it equal 0 otherwise. Compute f_{X_1,X_2} and $P(X_1, X_2)$.

[2] Section 3.6: 1, 3, 6(a),(b), 7, 8.

[3] Section 3.11: 1, 2, 8, 13(a), 16.

Part II:

[4] In Problem (1), compute $E(X_1|X_2)$.

[5] Section 3.7: 1(a),(b),(c),(d),(e), 4, 5, 6, 10.

[6] Section 3.8: 1, 2, 3, 4.

[7] Section 3.11: 4, 6, 10, 11.

[8] Section 4.1: 1(a),(b), 2, 4(a),(b).