

Stat 605: Problem set 2

1. Exercise 3.6, p.18
2. Exercise 3.11, p.19
3. Exercise 3.12, p.19
4. Exercise 3.14 and 3.16, p.19
5. Exercise 3.17, p.19
6. Consider the binomial random variable X with parameter n and p .
 - (a) Show that $E[X] = np$.
 - (b) Exercise 5.6, p. 33
 - (c) Exercise 5.7, p. 33
7. Exercise 5.16, p.34
8. Exercise 5.17, p.34
9. Exercise 5.20, p.34
10. Exercise 5.21, p.34 and also use it to compute the variance of the Poisson random variable.