1. VS Chap. 6, Exercise 6.2.4
2. VS Chap. 6, Exercise 6.C.1
3. VS Chap. 6, Exercise 6.C.4
4. VS Chap. 6, Exercise 6.C.6
5. VS Chap. 6, Exercise 6.C.7
6. VS Chap. 6, Exercise 6.C.22 (Pittsburgh plant = Bethlehem plant)
7. VS Chap. 6, Exercise 6.M.3
8. Suppose $U$ and $W$ are independent Uniform[0,1] random variables. For each random variable defined below, determine if its distribution is uniformly distributed. If it is uniformly distributed, specify which uniform distribution it follows. If it is not uniformly distributed, explain how you reached that conclusion.
   (a) Let $Y_1 = 3U - 3$
   (b) Let $Y_2 = 3 - 3U$
   (c) Let $Y_3 = U^2$
   (d) Let $Y_4 = U + W$
9. VS Chap. 7, Exercise 7.2.1
10. VS Chap. 7, Exercise 7.3.2 (a), (c)