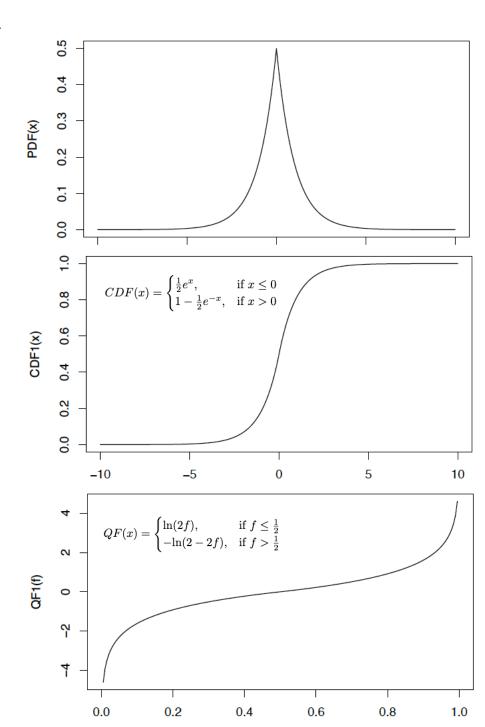
Answers to Practice Test 2



2.

3.

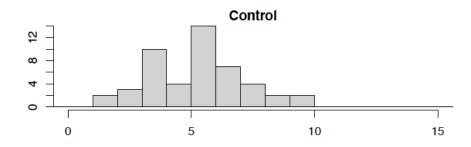


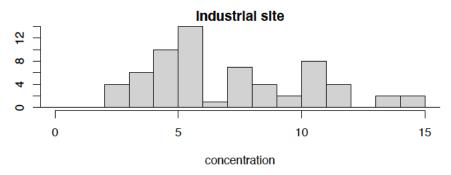
f

- 4. 0 5. 0
- 6. 0 7. 3.912
- 8. Leptokurtic

Problem 2

1





- 2. Control: 5.37 (CI 4.59-6.16) Industrial: 7.03 (CI 5.86-8.20)
- 3. No (p=0.0072)
- 4. Yes, the mean for the industrial group is higher (p=0.02)
- 5. 0.007 (alternatively, 0)
- 6. ~39 from control group and ~118 from industrial group

Problem 3

- 1. Linear
- 2. Nested
- 3. Can rule out m0 and m1 (p=0.01694 for ruling out m1)
- 4. Est. SE
 - k 1.020 0.029
 - A1 0.927 0.041
 - B1 -0.232 0.041
 - A2 0.068 0.041
 - B2 -0.097 0.041

Note – Marking will be based on both the methods and the results. It may be possible to obtain partial credit from a wrong answer, or to lose credit with a nearly-correct answer if the methodology is incorrect or not documented. Some questions may have multiple, equally valid answers. Submissions will require a complete knitted Rmarkdown file including all code chunks.