

# STAT 7750: Solutions to homework set 3

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**Solution 1:** Chapter 2, Exercise 3

**Solution 2:** Chapter 2, Exercise 8

**Solution 3:** Chapter 2, Exercise 11

**Solution 4:** Chapter 2, Exercise 13

**Solution 5:** Chapter 2, Exercise 18

**Solution 6:** Chapter 2, Exercise 24

**Solution 7:** Chapter 2, Exercise 36

**Solution 8:** Chapter 3, Exercise 4

**Solution 9:** Chapter 3, Exercise 8

(a)

**Solution 10:** Chapter 3, Exercise 13

(c)

**Solution 11:** Chapter 3, Exercise 14

**Solution 12:** Chapter 3, Exercise 17

(a)

(c)

**Solution 13:** Chapter 3, Exercise 18

(a)

(c)

(e)

**Solution 14:** Chapter 3, Exercise 19