Homework 2

520

Due at the beginning of class, Thursday 28th January

Trosset question numbers refer to the hardcover textbook. Show all working.

1. A ticket is to be drawn at random from a box containing eight tickets. Each ticket should have two numbers; however, three tickets have one blank space:

$$(1, -), (1, 2), (1, 2), (1, 3), (3, 1), (3, 2), (3, -), (3, -)$$

What numbers should go in the first, second, and third blank spaces to make the first number of the ticket drawn and the second number of the ticket drawn independent random variables?

2. Trosset exercise 3.7.8

3. Trosset exercise 3.7.14

4. Trosset exercise 4.5.1

5. Trosset exercise 4.5.2

6. Trosset exercise 4.5.4