

Probability (MATH 4733 - 01) Fall 2011

Exam 1 - Practice Problems

Due: never, but think Mon., Sep 26.

Out of my mind

Let A, B, C be subsets of a set S .

1. T F $(A \cap B) \cup C = A \cap (B \cup C)$.
2. T F If A and B are mutually exclusive, then they are independent.
3. T F If a fair coin is tossed twice, and at least one head appears, then the probability two heads appeared is $1/2$.
4. T F If a fair coin is tossed twice, the probability of getting one head and one tail (in some order) is $1/2$.
5. Let S be a finite set. State the 3 axioms required for P to be a probability function on S .
6. State what it means for A to be an event in S .

From the book

Section 2.2: 25, 27

Section 2.3: 3

Section 2.4: 13, 14, 18, 41, 50

Section 2.5: 20

Section 2.6: 27, 29, 39, 49, 55

Section 2.7: 3, 9, 13, 15, 17, 18, 19

Section 3.2: 1, 3, 19, 23, 25