Quiz 6 (8 points total) Math 017, Spring 2016

Name: Section:

Problem 1 Two fair dice are rolled. What is the probability that two sixes are rolled or the sum of the two dice is 11?

(a) $\frac{1}{36}$

(b) $\frac{1}{18}$

(c) $\frac{1}{12}$

(d) $\frac{1}{9}$

Problem 2 Two cards are drawn from a standard deck **without** replacement. What is the probability that the first is red and the second is black?

(a) $\frac{1}{2}$

(b) $\frac{13}{51}$

(c) $\frac{1}{4}$

(d) $\frac{27}{51}$

Problem 3 Suppose two events E and F are independent. Which one of the following is not always true?

(a) $P(F|E) = P(F)$

(b) $P(E \cap F) = P(E) \cdot P(F)$

(c) $P(E \cap F) = 0$

(d) $P(E') = 1 - P(E)$

Problem 4 Two fair dice are rolled. What is the probability that the total is 11 given that at least one of the dice rolls a 5?

(a) $\frac{1}{6}$

(b) $\frac{2}{11}$

(c) $\frac{1}{3}$

(d) $\frac{2}{13}$

Feedback:

1. Any comments (on lectures, homework, quizzes, course, me, etc.)?