Quiz1

1. Suppose you throw two 5-sided dices, with sides labeled 1, 2, 3, 4, and 5.

    a. List the possible outcomes of the sum of the two dices and their probabilities.

    b. Suppose that the sum is 6. What is the probability that either dice show a 1?

2. A deck of four cards consists of the ace of spades, the ace of clubs, the deuce of spades, and the deuce of clubs. A hand of two cards is randomly dealt from this deck.

    a. What is the sample space of the possible hands?

    b. What is the probability that it contains both aces if we know it contains at least one?

    c. What is the probability that the hand contains both aces if we know it contains the ace of spades'