Quiz

February 15, 2024

- 1. Suppose that you have 4 white socks, 2 black socks, 6 red socks, and 3 green socks. Assume that all socks are indistinguishable otherwise. Suppose that you draw 4 socks, all at once. What is the probability that you get 2 socks of the same color and the remaining 2 socks are of the same color, but not all 4 socks are of the same color?
- 2. A fair six-sided (1, 2, 3, 4, 5, 6) die is thrown twice. Let $A = \{\text{sum of the throws equals } 4\}$, and let $B = \{\text{at least one of the throws show a } 3\}$. Find P(A|B).