Stat 2605 Tutorial 1

September 20, 2022

1. Toss a die twice and record the sum. Find the probability that the sum is 10.

2. Suppose $\mathbf{P}(A) = 0.4$, $\mathbf{P}(B) = 0.8$, $\mathbf{P}(A \cap B) = 0.3$. Find $\mathbf{P}(A^c \cup B)$.

3. A class consists of 7 boys and 8 girls. 4 students are selected at random to volunteer on campus.

   (a) What is the number of choices to get 4 students including at least one girl?

   (b) What is the probability of getting such a team?