MATH 135/STA 104
Fall 2002 I. H. Dinwoodie
Quiz 12

1. A die is rolled until the sum exceeds 100. What is the probability that at least 12 rolls are necessary?

2. Let $S = N_1 + \ldots + N_{60}$ be the number of logins onto a computer system in sixty minutes, where $N_i \sim P(2)$ are independent Poisson counts for each of the one-minute intervals. Approximate $P(S \geq 130)$, the probability that more than 130 logins are made.