charles wang quiz 13 solutions

- 1. True. The outcome space is the set of numbers $\{0, 1, \dots, n\}$.
- 2. True. It is the binomial distribution with n = 1 and p the probability of getting heads.
- 3. (a) n is the number of independent trials, and p is the probability of success in each trial.
 - (b) The outcome space is $\{0, 1, ..., n\}$ because any number of successes between 0 and n is possible.
 - (c) Just use the formula $f(k) = \binom{n}{k} p^k (1-p)^{n-k}$ with $n=3, p=\frac{1}{2}$, and k=0,1,2,3. This gives:

