name	:	
section	:	109

GSI: Charles Wang

(2 pts) Circle True or False. (+1 for correct, 0 for blank, -1 for incorrect)

- 1. (True False) The outcome space Ω for a Binomial distribution does not depend on p.
- 2. (True False) The Coin Flip distribution is an example of a Binomial distribution.

(10 pts) For the following, you must **justify** your answer to receive credit. (Showing your work counts as justification.)

- 3. (a) (2pts) Explain the meaning of the two parameters n and p in the definition of a Binomial distribution.
 - (b) (4pts) What is the outcome space for a random variable following a binomial distribution with parameters n and p?
 - (c) (4pts) Let X be a random variable following a binomial distribution with parameters n=3 and $p=\frac{1}{2}$. Compute and draw the PMF for X.