ECE 341 - Homework #2

Card Games. Due Thursday, May 21st

The card game *bridge* uses a 52-card deck. Each person is dealt 13 cards for their hand.

1) How many different hands are possible? (order doesn't matter)

2) What is the probability of having 7 cards of one suit in your hand?

3) What is the probability of having all 4 Aces in your hand?

4) Compute the odds of a flush in 5-card stud.

5) Compute the odds of a flush in 5-card draw. Assume you go for a flush if you have four cards of one suit in your opening hand (and draw one card).

6) Determine the odds of a flush using Matlab and a Monte-Carlo simulation