## MCMT Homework 11

## Shun Zhang

## Exercise 11.1

Number of cases that the last card is from the left hand:  $\binom{n}{m} - \binom{n-1}{m} = \binom{n-1}{m-1}$ . Number of cases that the last card is from the right hand:  $\binom{n-1}{m}$ . The ratio of probability of the last card being from the left hand versus the right hand is  $\binom{n-1}{m-1}/\binom{n-1}{m} = m/(n-m)$ .