## Homework 10 : Due Friday, May 1

**Extra Problem:** Suppose that you are playing poker with a a friend. Each of you is dealt five cards at random from one deck (so you can not both have the same card). You happen to get dealt a flush, and you want to know whether your friend is more or less likely to have a flush based on this information. Thus, we let E be the event "You have a flush" and let F be the event "Your friend has a flush". Calculate P(F|E). How does this value compare to P(F)? Are E and F independent events?