## Homework 12 : Due Friday, May 6

Extra Problem: The game of Spades consists of 2 teams with 2 players each. In one round, the 52 cards are dealt so that each player gets 13 cards. Let $X$ be the random variable which gives the number of spades that you have. Let $Y$ be the random variable which gives the number of spades that your partner has. Calculate $P(X=2, Y=4)$ (this is one value of the joint distribution of $X$ and $Y)$. Are $X$ and $Y$ independent random variables?

