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?