Quiz 7

True/False - No explanation needed. (2pts)

- 1. Two Bernoulli trials are independent only if the probability of success and failure are each $\frac{1}{2}$. True/False
- 2. For any random variable X, the expected value E(X) is always finite. True/False

Problems - Need justification. No justification means zero!

1. You roll two fair 6-sided die 100 times. Let X be the number of times you roll a sum of 4. Identify the name of the distribution of X and find P(X = 10). (5pts)

2. Assume that the random variable X follows Poisson distribution. If E(X) = 1, what is the probability $P(X \ge 1)$? (5pts)