

- (4) Patients are coming to a clinic one by one, and each randomly may have a flu with probability 25%, independently one of another. Let X be the number of patients until the first flu case. Find the mean and the standard deviation of X . You do not have to simplify your answer.
- (5) In the same situation, find the probability that $X \geq 3$. You do not have to simplify your answer.
- (6) Find the mean and the variance of a random variable which is uniformly distributed from 1 to 4.