

48. A manufacturer receives a lot of 100 parts from a vendor. The lot will be unacceptable if more than five of the parts are defective. The manufacturer will randomly select K parts from the lot for inspection and the lot will be accepted if no defective parts are found in the sample. Use R for all computations.
- (a) How large does K need to be to ensure that the probability that the manufacturer accepts an unacceptable lot is less than 0.10?
 - (b) Suppose the manufacturer decides to accept the lot if there is at most one defective part in the sample. How large does K need to be to ensure that the probability that the manufacturer accepts an unacceptable lot is less than 0.10?