

Chapter 16 Homework

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16.1

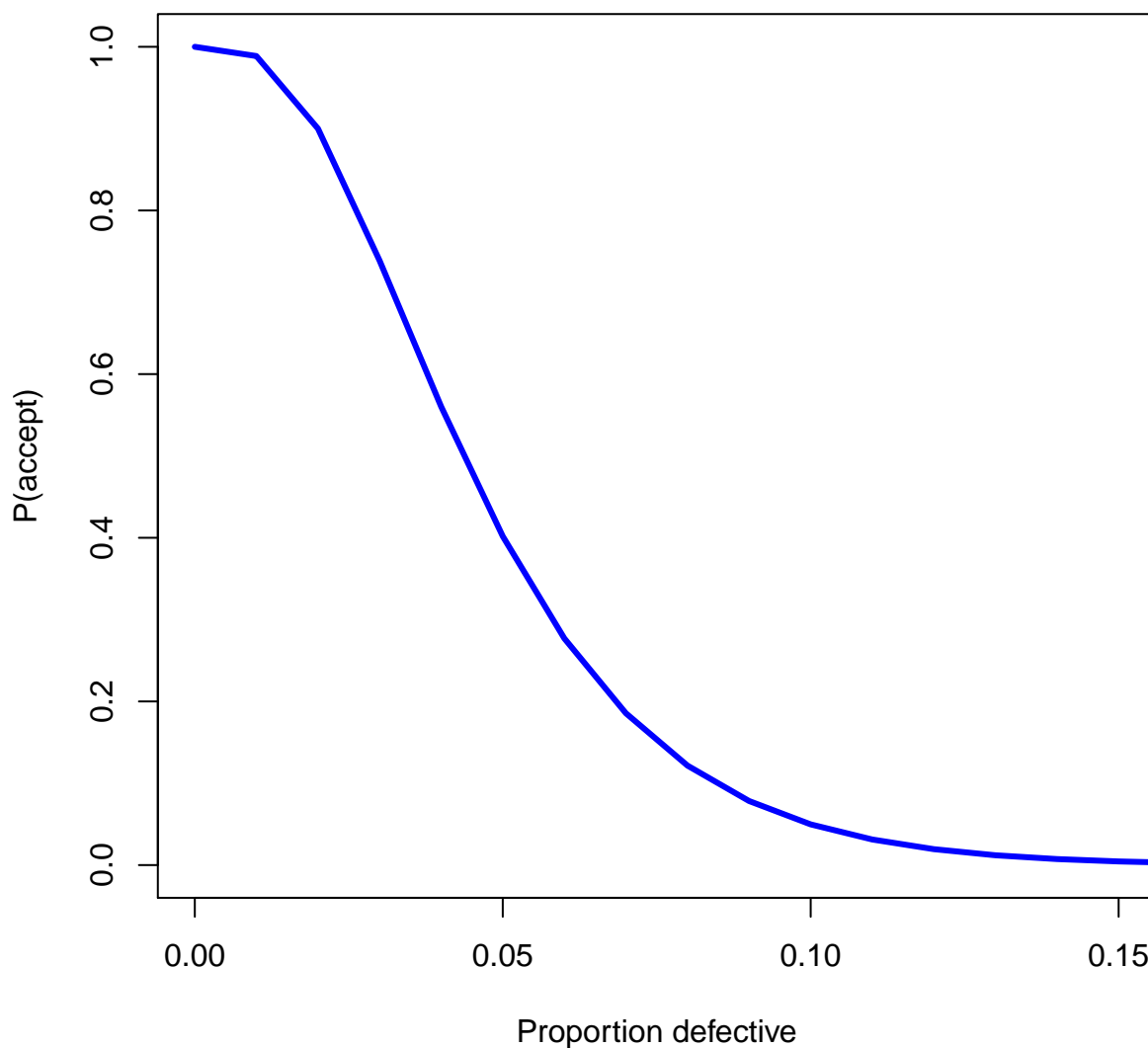
Using the nomograph, $n = 40$. But, using the computer, $n = 36$.

To determine the probability of acceptance

$$Z_{LSL} = \frac{\bar{x} - LSL}{\sigma} = \frac{0.73 - 0.7}{\frac{0.0105}{\sqrt{40}}} = 18.0702$$

and with such a large value for Z we would accept this lot.

The OC curve for our sampling plan is displayed below.



16.2

Using the nomograph n appears to be just above 30. But, using the computer, $n = 32$.