



- (d) Suppose he measures a sample mean of 1.025 kg. Will he conclude he needs to adjust the machine at the 0.05 level of significance?
- (e) Show that a sample will only show enough evidence that the machine needs to be adjusted if its mean is bigger than 1.033 kg. Assume a 0.05 significance level.
- (f) Given that the machine actually does need adjusting how likely is it that a sample of 16 bags would have such a small mean? Hence find the power of the significance test.
- (g) The manager decides that sampling 16 bags does not provide a powerful enough test. Repeat the previous two parts of this question with a sample size of 25, and hence find the new power.