

Problem 2

Exercise 8 on page 435.

The null hypothesis H_0 is that the average warpage of the special laminate μ_s will be equal to the warpage of the regular laminage μ_r .

$$H_0 : \quad \mu_s = \mu_r$$

The alternative hypothesis H_a is that the warpage of the special laminate μ_s is less than the warpage of the regular laminate μ_r .

$$H_a : \quad \mu_s < \mu_r$$

A **type I error** in this context would be determining that the average warpage of the special laminate is less than the average warpage of the regular laminate when it really is not.

A **type II error** in this context would be determining that the average warpage of the special laminate is not less than the warpage of the regular laminate when it really is.