

Homework Solutions

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Exercise 37

- (a) The null hypothesis was supported.
- (b) It must be less than α , which was 0.10, so the p -value must be less than 0.10.
- (c) Because we did not reject the null hypothesis, we could not possibly have made a Type I error. Therefore, a Type II error was possible.
- (d) The rejection region is one-sided to the right (larger values). The alternative hypothesis says that the number of hours has *increased*, so if the observed value is large enough, we will reject H_0 in favor of H_1 .