Practice Problems

Problem 13.1:

Use Table VII to find each of the following χ^2 values:

(a) $\chi^2_{0.10}$ for df $= 12$

(b) $\chi^2_{0.05}$ for df $= 14$

(c) $\chi^2_{0.01}$ for df $= 16$

(d) $\chi^2_{0.005}$ for df $= 20$

Problem 13.2:

The student evaluations for Professor Fade in STA4163 have the following results:

Category	A	B	C	D
Frequency	5	8	18	29

(a) If there are 60 students in this class, do you think that we can use the χ^2 test to analyze this data?

(b) Suppose the college average is 10% of A, 20% of B, 30% of C, and 40% of D. Do you think Professor Fade and college average are the same at $\alpha = 0.10$?