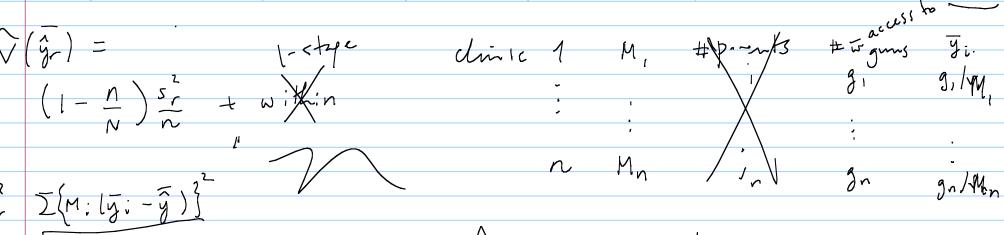
Exercise 5.9.2

Senturia et al describe a survey taken to study how many children have access to guns in their household. questionnaires were distributed to all parents who attended selected clinics in the Chicago area during a 1-week period for well-child or sick-child visits.

a) Suppose the quantity of interest is the percentage of households with guns. Describe why this is a cluster sample. What is the psu? The ssu? Is it a one-stage or two-

stage cluster sample? How would you estimate the percentage of households with guns and the standard error of your estimate?



Exercise 5.9.4

Jacoby and Handlin selected 26 so holarly journals from a list of 1285 scholarly journals in social and behavioural sciences.

They examined all articles published during 1988 and recorded the number o farticles that described empirical research from a survey and the total number of articles that used probability sampling, nonprobability sampling, or for which the sampling method could not be determined.

The data are in journal.dat.

a Explain why this is a cluster sample.

b Estimate the proportion of articles in the 1285 journals that use nonprobability sampling, and give the standard error of your estimate.

