Stat 230

May 14 Demo/ Practice problems

All the problems are ungraded.

- **Pr. 1** Pitman 1.3.4
- **Pr. 2** Pitman 1.3.5
- **Pr. 3** Pitman 1.3.8
- **Pr. 4** Pitman 1.3.10
- **Pr. 5** Pitman 1.3.14
- **Pr.** 6 Let E be an experiment that consists of tossing a coin until a heads is obtained. Denote by X the number of tails obtained before the experiment terminates.
 - a) What is Pr(X = 0)?
 - b) What is Pr(X = 1)?
 - c) What is Pr(X = k), for k = 0, 1, ...?
 - d) How many times do you need to toss a coin to have probability 0.95 to see at least one heads?
 - e) How many times do you need to roll a die to have probability 0.95 to see it land on 6 at least once?