

Stat 230

May 18 Demo/ Practice problems

All the problems are ungraded.

Pr. 1 Pitman 1.5.2

Pr. 2 Pitman 1.5.3

Pr. 3 Pitman 1.5.4

Pr. 4 You ask your neighbor to water a sickly plant while you are on vacation. Without water, it will die with probability 0.8; with water, it will die with probability 0.15. You are 90 percent certain that your neighbor will remember to water the plant.

- a) What is the probability that the plant will be alive when you return?
- b) If the plant is dead upon your return, what is the probability that your neighbor forgot to water it?