## STAT 575

Practice Problems for Exam 2 (not to be turned in)
1 Problem
The numbers refers to Cunningham et.al, if not specified otherwise. Some problems may have additional parts.

1. Suppose the transition probability matrix for an absorbing Markov Chain is:

$$
P=\left[\begin{array}{ccc}
0.7 & 0.2 & 0.1 \\
0.3 & 0.4 & 0.3 \\
0 & 0 & 1
\end{array}\right]
$$

Find $(I-S)^{-1}$ for this transition matrix and interpret the entry $q_{21}$.

