

Homework 4 UG

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4.6)a)

$$\begin{aligned}P(S|UG) &= .15 \\P(S|G) &= .23 \\P(G) &= .8 \\P(UG) &= .2\end{aligned}\tag{1}$$

These are the known probabilities. From this we can find $P(G|S)$.
Because of Bayes Probabilities we can say

$$P(G|S) = \frac{P(S|G)}{P(S)}\tag{1}$$