Kerry Ojakian's MTH 23.5 Class
Class Assignment #13

1. If two events A and B are independant and $P(A) = 40\%$, then can you determine $P(A|B)$? If so, what is it?

2. Suppose $P(X \text{ and } Y) = 1/3$ and $P(Y) = 1/2$ and $P(X) = 3/4$.
   What is $P(X|Y)$? What is $P(Y|X)$?

3. Suppose E and F are mutually exclusive events (both have non-zero proability). Determine $P(E|F)$. Why does your answer make sense? Are E and F independent?