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Probability Assignment -I

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I. PROBLEM

Given that E and F are events such that P(E)=0.6, P(F)=0.3 and P(E F)=0.2, find P(E|F) and P(F|E).

II. SOLUTION

P(E|F)=$\frac{P(EF)}{P(F)}$=$\frac{0.2}{0.3}$ $=\frac{2}{3}$

P(F|E)=$\frac{P(EF)}{P(E)}$=$\frac{0.2}{0.6}$ $=\frac{1}{3}$