Once again, using Theorem 1.3, we have

$$\mathrm{P}[A \cup B] = \mathrm{P}[AB] + \mathrm{P}[AB^c] + \mathrm{P}[A^c B] \tag{10}$$

Substituting the results of Equation (8) into Equation (10) yields

$$\mathrm{P}[A \cup B] = \mathrm{P}[AB] + \mathrm{P}[A] - \mathrm{P}[AB] + \mathrm{P}[B] - \mathrm{P}[AB], \tag{11}$$

which completes the proof. Note that this claim required only Axiom 3.

(d) Observe that since $A \subset B$, we can write B as the mutually exclusive union $B = A \cup (A^c B)$. By Theorem 1.3 (which uses Axiom 3),

$$\mathrm{P}[B] = \mathrm{P}[A] + \mathrm{P}[A^c B]. \tag{12}$$

By Axiom 1, $\mathrm{P}[A^c B] \geq 0$, hich implies $\mathrm{P}[A] \leq \mathrm{P}[B]$. This proof uses Axioms 1 and 3.

Problem 1.4.1 Solution

Each question requests a conditional probability.

(a) Note that the probability a call is brief is

$$\mathrm{P}[B] = \mathrm{P}[H_0 B] + \mathrm{P}[H_1 B] + \mathrm{P}[H_2 B] = 0.6. \tag{1}$$

The probability a brief call will have no handoffs is

$$\mathrm{P}[H_0|B] = \frac{\mathrm{P}[H_0 B]}{\mathrm{P}[B]} = \frac{0.4}{0.6} = \frac{2}{3}. \tag{2}$$

(b) The probability of one handoff is $\mathrm{P}[H_1] = \mathrm{P}[H_1 B] + \mathrm{P}[H_1 L] = 0.2$. The probability that a call with one handoff will be long is

$$\mathrm{P}[L|H_1] = \frac{\mathrm{P}[H_1 L]}{\mathrm{P}[H_1]} = \frac{0.1}{0.2} = \frac{1}{2}. \tag{3}$$

(c) The probability a call is long is $\mathrm{P}[L] = 1 - \mathrm{P}[B] = 0.4$. The probability that a long call will have one or more handoffs is

$$\begin{aligned}\mathrm{P}[H_1 \cup H_2|L] &= \frac{\mathrm{P}[H_1 L \cup H_2 L]}{\mathrm{P}[L]} \\ &= \frac{\mathrm{P}[H_1 L] + \mathrm{P}[H_2 L]}{\mathrm{P}[L]} = \frac{0.1 + 0.2}{0.4} = \frac{3}{4}.\end{aligned} \tag{4}$$

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John A. Cornell

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