$$P_{A}(B) \qquad B \qquad P(A \cap B) = \frac{3}{7} \times \frac{1}{4}$$

$$P_{A}(B) \qquad \bar{B} \qquad P(A \cap \bar{B}) = \frac{3}{7} \times \frac{3}{4}$$

$$P_{A}(B) \qquad \bar{B} \qquad P(A \cap \bar{B}) = \frac{3}{7} \times \frac{3}{4}$$

$$P_{\bar{A}}(B) \qquad B \qquad P(\bar{A} \cap B) = \frac{4}{7} \times \frac{5}{9}$$

$$\bar{A} \qquad P_{\bar{A}}(\bar{B}) \qquad \bar{B} \qquad P(\bar{A} \cap \bar{B}) = \frac{4}{7} \times \frac{4}{9}$$