$P(B \setminus A) \cdot B \quad P(A \cap B) = P(A) \cdot P(B \mid A)$ $\bar{B} \quad P(A \cap \bar{B}) = P(A) \cdot P(\bar{B} \mid A)$ $P(B \setminus \overline{A}) \cdot B \quad P(\overline{A} \cap B) = P(\overline{A}) \cdot P(B \mid \overline{A})$ $P(\bar{A} \cap \bar{B}) = P(\bar{A}) \cdot P(\bar{B} \mid \bar{A})$