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