1.21  $\int_{R_1} P(x, C_2) dx \in \int_{R_1} \int_{P(x, C_1)} P(x, C_2) dx$   $\int_{R_2} P(x, C_1) dx \in \int_{R_2} \int_{P(x, C_1)} P(x, C_2) dx$   $P(mistable) \leq \int_{R_1} \int_{P(x, C_1)} P(x, C_1) dx + \int_{R_2} \int_{P(x, C_1)} P(x, C_2) dx$   $= \int_{R_1 \cup R_2} \int_{P(x, C_2)} P(x, C_1) dx$  $= \int_{R_1 \cup R_2} \int_{P(x, C_2)} P(x, C_2) dx$