Demonstrați că $\overline{A \cup B} = \overline{A} \cup \overline{B}$.

Știm: $\forall A, B \in X$
(1) $\overline{cA} = c\mathring{A}$
(2) $c(A \cap B) = cA \cup cB$
(3) $\overset{\circ}{\widehat{A \cap B}} = \mathring{A} \cap \mathring{B}$

Fie $Y, Z \subseteq X$.
Fie $A = cY, Z = cB$.
Demonstrăm că $\overline{A \cup B} = \overline{A} \cup \overline{B}$.

$A \cup B = cY \cup cZ \overset{(2)}{=} c(Y \cap Z) \Longrightarrow \overline{A \cup B} = \overline{c(Y \cap Z)} \overset{(1)}{=} c(\overset{\circ}{\widehat{Y \cap Z}}) \overset{(3)}{=} c(\mathring{Y} \cap \mathring{Z}) \overset{(2)}{=} c\mathring{Y} \cup c\mathring{Z} =$
$= \overline{cY} \cup \overline{cZ} = \overline{A} \cup \overline{B}$.
q.e.d.