Contents

% Created 2019-03-14 Thu 23:25 % Intended LATEX compiler: pdflatex [11pt]article [utf8]inputenc [T1]fontenc graphicx grffile longtable wrapfig rotating [normalem]ulem amsmath textcomp amssymb capt-of hyperref minted geometrya4paper,left=20mm,right=20mm,top=20mm,bottom=30mm math-tools,accents,tipa,graphicx { pdfauthor= $\{\}$, pdftitle= $\{\}$, pdfkeywords= $\{\}$, pdfsubject= $\{\}$, pdfcreator= $\{$ Emacs 26.1 (Org mode 9.2) $\}$, pdflang= $\{$ English $\}\}$

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

Stim:
$$\forall A, B \in X$$

- (1) $\overline{cA} = c\mathring{A}$
- (2) $\stackrel{\circ}{\text{cA}} = c\overline{A}$
- (3) $c(A \cap B) = cA \cup cB$

Fie
$$Y, Z \subseteq X$$
.

Fie
$$A = cY, Z = cB$$
.

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

$$A \cup B = cY \cup cZ = c(Y \cap Z) \implies \overline{A \cup B} = \overline{c(Y \cap Z)}$$