Comp 256

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$$Prove: \overline{A} \equiv (\Omega \setminus A) \cup \overline{(A \cup (C \cap B))} \tag{1}$$

$$\overline{A} \equiv \overline{A} \cup \overline{(A \cup (C \cap B))}\ Difference\ from\ set\ A \tag{2}$$

$$\overline{A} \equiv \overline{A} \cup \left(\overline{A} \cap \overline{C \cap B}\right)\ DeMorgan \tag{3}$$

$$\overline{A} \equiv \overline{A} \cup \left(\overline{C \cap B} \cap \overline{A}\right)\ Communitive \tag{4}$$

$$\overline{A} \equiv \overline{A}\ Absorption \tag{5}$$