

a1	$(A \cup B) \cup C = A \cup (B \cup C)$	a2	$(A \cap B) \cap C = A \cap (B \cap C)$
b1	$A \cup B = B \cup A$	b2	$A \cap B = B \cap A$
c1	$A \cup (A \cap B) = A$	c2	$A \cap (A \cup B) = A$
d1	$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$	d2	$A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
e1	$A \cup A^c = \mathcal{U}$	e2	$A \cap A^c = \emptyset$
f1	$A \cup \emptyset = A$	f2	$A \cap \mathcal{U} = A$
g1	$A \cap \emptyset = \emptyset$	g2	$A \cup \mathcal{U} = \mathcal{U}$
h1	$\emptyset^c = \mathcal{U}$	h2	$\mathcal{U}^c = \emptyset$
i1	$(A \cup B)^c = A^c \cap B^c$	i2	$(A \cap B)^c = A^c \cup B^c$
j	$(A^c)^c = A$		