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so many fake sites. this is the first one which worked! Many thanks

Answer

False

Let $A = \{0, 1\}$ and $B = \{1, 2\}$

$\therefore A \cup B = \{0, 1, 2\}$

$P(A) = \{\emptyset, \{0\}, \{1\}, \{0, 1\}\}$

$P(B) = \{\emptyset, \{1\}, \{2\}, \{1, 2\}\}$

$P(A \cup B) = \{\emptyset, \{0\}, \{1\}, \{2\}, \{0, 1\}, \{1, 2\}, \{0, 2\}, \{0, 1, 2\}\}$

$P(A) \cup P(B) = \{\emptyset, \{0\}, \{1\}, \{0, 1\}, \{2\}, \{1, 2\}\}$

$\therefore P(A) \cup P(B) \neq P(A \cup B)$

Question B:

Show that for any sets A and B,

$A = (A \cap B) \cup (A - B)$ and $A \cup (B - A) = (A \cup B)$

Answer

To show: $A = (A \cap B) \cup (A - B)$

Let $x \in A$

We have to show that $x \in (A \cap B) \cup (A - B)$

Case I

$x \in A \cap B$

Then, $x \in (A \cap B) \subset (A \cap B) \cup (A - B)$

Case II

$x \in A \cap B$

$\Rightarrow x \in A$ or $x \in B$

$\therefore x \in B [x \in A]$

$\therefore x \in A - B \subset (A \cap B) \cup (A - B)$

$\therefore A \subset (A \cap B) \cup (A - B) \dots (1)$

It is clear that

$A \cap B \subset A$ and $(A - B) \subset A$

$\therefore (A \cap B) \cup (A - B) \subset A \dots (2)$

From (1) and (2), we obtain

$A = (A \cap B) \cup (A - B)$

To prove: $A \cup (B - A) \subset A \cup B$

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