



vi) $n(A \cap B) = n(A)$ if $A \subseteq B$.

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vii)
$$A - B = A$$
 if $A \cap B = \phi$
viii) $n(A \cap B) = O$ if $A \cap B = \phi$
if $B = A'$ or $A = B'$
x) $A \cup B = B \cup A$
it is always true.
xi) $n(A \cap B) = n(B)$ if $B \subseteq A$.
xii) $U - A = \phi$ if $U = A$
 $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
 $A = \{2, 4, 6, 8, 10\}$
 $B = \{1, 2, 3, 4, 5, 5, 7, 8, 9, 10\}$
 $A = \{2, 4, 6, 8, 10\}$
 $B = \{1, 2, 3, 4, 5, 5, 7, 8, 9, 10\}$
i) $A^{C} = U - A$
 $= \{1, 3, 5, 7, 9\}$
ii) $A \cap B = \{6, 8, 10\}$
iii) $A \cup B = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
iv) $A - B = \{6, 8, 10\}$
v) $A \cap C = \{7\}$ i.e ϕ
vi) $A \cap C = \{1, 3, 5, 7, 9\}$ vi) $A \cap C$
 $= \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
iv) A
 $= \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
vi) $A \cap C = \{1, 3, 5, 7, 9\}$ vi) $A \cap C$
 $= \{1, 3, 5, 7, 9\}$ vi) $\{1, 3, 5, 7, 9\}$
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viii) $A \cap C = \{1, 3, 5, 7, 9\}$ vi) $\{1, 3, 5, 7, 9\}$ vi) $A \cap C$
 $= \{1, 3, 5, 7, 9\}$ vi) $\{1, 3, 5, 7, 9\}$ vi) $\{2, 3, 5, 7, 9\}$ vi) $\{3, 3, 7, 9\}$

(iii)
$$U^{c} = U - U$$

 $= \emptyset$
 $Q # S::$
 $Q # S::$
 $Q # S::$
 $Q = U - A$
 $Q = U$
 $Q = A$
 $Q =$

