

$$(a) \quad A \triangle \emptyset = A;$$

$$(b) \quad A \triangle A = \emptyset;$$

$$(c) \quad A \triangle B = B \triangle A;$$

$$(d) \quad (A \triangle B) \triangle C = A \triangle (B \triangle C);$$

$$(e) \quad A \cup (B \triangle C) = (A \triangle B) \triangle (A \cap C);$$

$$(f) \quad A \triangle B = A \triangle C \implies B = C.$$