1. (a)  $A \cup B = \{1, 5, 3, 6, 7, 8\}$ (b)  $A \cap (B \cup C) = A \cap \{3, 5, 6, 7, 8\}$  $= \{3, 5, 6, 7\}$ (c)  $A - B = \{1, 3\}$  $C - A = \{8\}$ (d)  $(C-A) \cup B = \{5, 6, 7, 8\}$ 

(e) \( \pri \) (as both sets are disjoint)

 $((C-A) \cup B) \cap A = \{3, 5, 6, 7\}$