1. Given $U = \{5, 4, 7, 9, 10, 15\}$; $A = \{7, 9, 10\}$; and $B = \{5, 4, 7, 10\}$. Find the following:
   - $B - A$
   - $A - B$
   - $\overline{B}$

   Given that $U$ is the universe, find and write out the set $\overline{B} \cap (\overline{B} \cup A)$.

   Given that $U$ is the universe, find and write out the set $(A \cap B) \cap \overline{B}$.

   Find and write out the set $\overline{A} - (\overline{B} \cap A)$. 