Set and Probability Remediation Practice        Name_____



1. Use the above sets to answerer the following:
   a. (A ∩ B) U C

   b. A ∩ (B U C)

   c. ~A

   d. (C ∩ B)'

   e. (A U C) ∩ $\overline{(A\ U\ B)}$

2. Set H{2, 3, 5, 1, 7, 13, 10}, L{2, 3, 5, 7, 11, 13, 17, 19, 23, 29}, K{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 26}
   a. (H ∩ L)

   b. H ∩ (L U K)

   c. $\overline{(L\ U\ K)}$

Identify if the following are mutually exclusive or not.

a. Rolling a die and getting a 3 and a 4.

b. Picking an Ace and a Heart in one drawing from a deck of cards.

c. Having Instagram and snapchat on an iPhone.

d. Picking a 5 and a 10 in one drawing from a deck of cards.

e. Standing outside and getting struck by lightning.