Name_____Date_____Period_____

AP Statistics 5.1-5.2 Practice for Quiz

Shade the Venn Diagrams below to represent the following probability statements

(A) $(A \cup B)^c$

(B) $(A^c \cap B)$

(C) $(A^c \cup B)$

(D) $(A^c \cap B^c)$

(E) $(A \cap B)^c$

(F) $(A^c \cup B^c)$
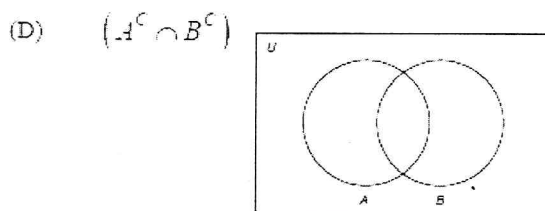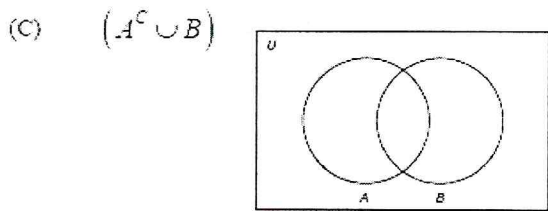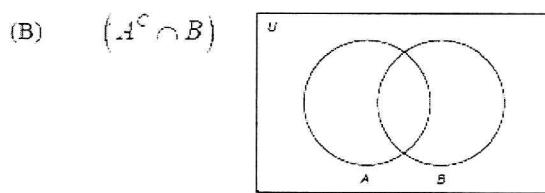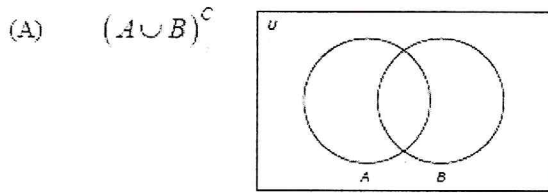
(G) $(A \cup B^c)$

(H) B^c
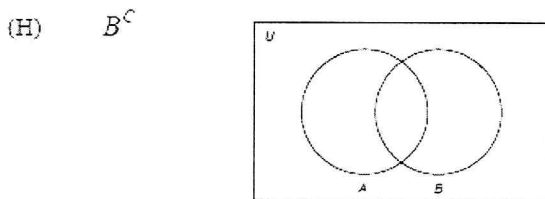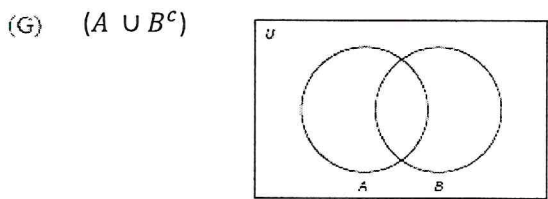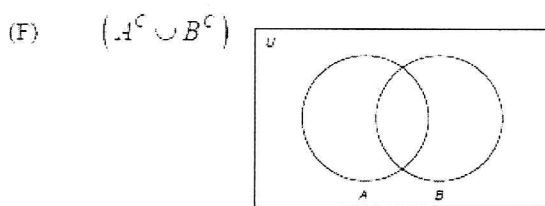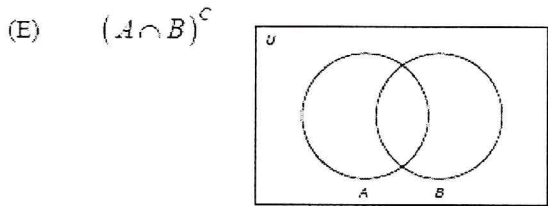
3. The table below is a probability model for the number of cars in a randomly-selected household in the United States.

Number of Cars	0	1	2	3	4	5 or more
Probability	0.07	0.19	0.47	?	0.06	0.02

a) What is the probability that a randomly selected household has three cars? (That is, fill in the space marked with a "?") Show your work.

b) What is the probability that a randomly-selected household has at least 2 cars? Show your work.

4. Last Saturday at Pasquale's Pizzas and Wings, 60 customers were served over the course of the evening. Fifty-two customers ordered pizza and 16 ordered buffalo wings. Twelve of these customers ordered **both** pizza and wings. Suppose we select a customer from last Saturday at random.

a) Construct Venn diagram below so that it describes the chance process involved here. Let P = the event "ordered pizza" and W = the event "ordered wings."