

Name: _____

Group _____

Write down the sets events for each of the following using the following definitions:

$$S = \{a, b, c, d, e, f, g, h\} \quad A = \{a, b, c\} \quad B = \{d, e, f\} \quad C = \{a, b, c, d, g, h\}$$

a) A^c

b) $A \cap B$

b) $A \cap C$

c) $A \cup B$

d) $A^c \cap B$

e) $A^c \cup C$

f) $C \setminus A$

g) $A \cup (B \cap C)$

h) $(A \cup B) \cap (A \cup C)$

i) how are parts g) and h) related?

j) Draw the Venn diagrams for parts a), b), e), f)