

SATPREP

Assignment : Venn diagram

1. Draw six diagrams similar to Figure 1 and shade the following sets:

- a) $A \cap B$ b) $A \cup B$ c) A'
 d) $A' \cap B$ e) $B' \cap A$ f) $(B \cup A)'$

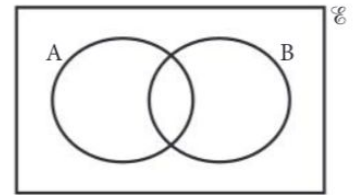


Figure 1

2. Draw four diagrams similar to Figure 2 and shade the following sets:

- a) $A \cap B$ b) $A \cup B$ c) $B' \cap A$ d) $(B \cup A)'$

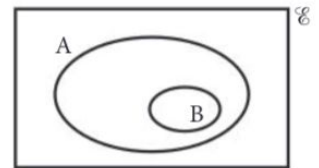


Figure 2

3. Draw four diagrams similar to Figure 3 and shade the following sets:

- a) $A \cup B$ b) $A \cap B$ c) $A \cap B'$ d) $(B \cup A)'$

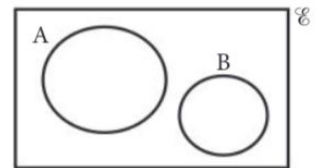


Figure 3

4. Draw eleven diagrams similar to Figure 4 and shade the following sets:

- a) $A \cap B$ b) $A \cup C$ c) $A \cap (B \cap C)$
 d) $(A \cup B) \cap C$ e) $B \cap (A \cup C)$ f) $A \cap B'$
 g) $A \cap (B \cup C)'$ h) $(B \cup C) \cap A$ i) $C' \cap (A \cap B)$
 j) $(A \cup C) \cup B'$ k) $(A \cup C) \cap (B \cap C)$

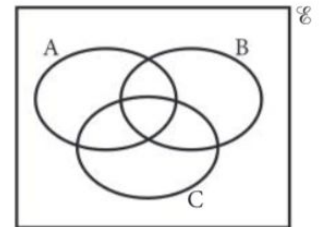


Figure 4

5. Draw nine diagrams similar to Figure 5 and shade the following sets:

- a) $(A \cup B) \cap C$ b) $(A \cap B) \cup C$ c) $(A \cup B) \cup C$
 d) $A \cap (B \cup C)$ e) $A' \cap C$ f) $C' \cap (A \cup B)$
 g) $(A \cap B) \cap C$ h) $(A \cap C) \cup (B \cap C)$ i) $(A \cup B \cup C)'$

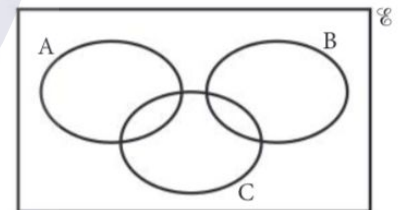
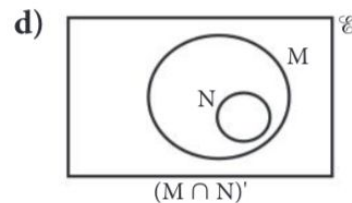
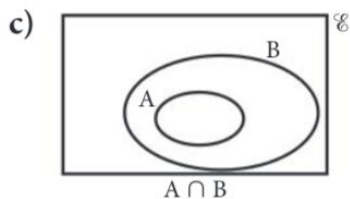
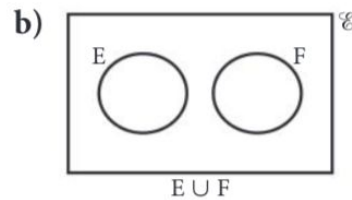
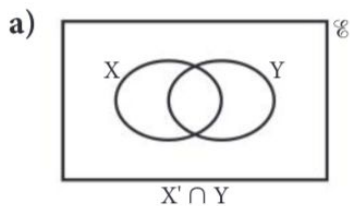
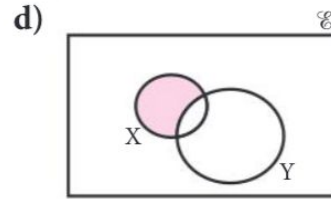
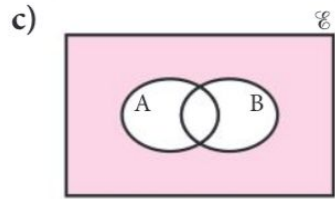
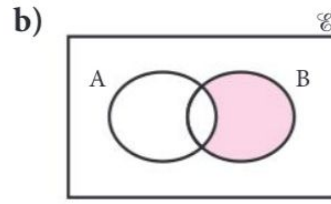
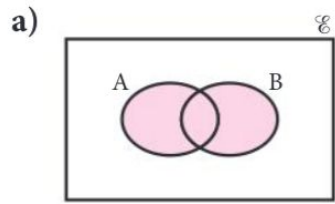


Figure 5

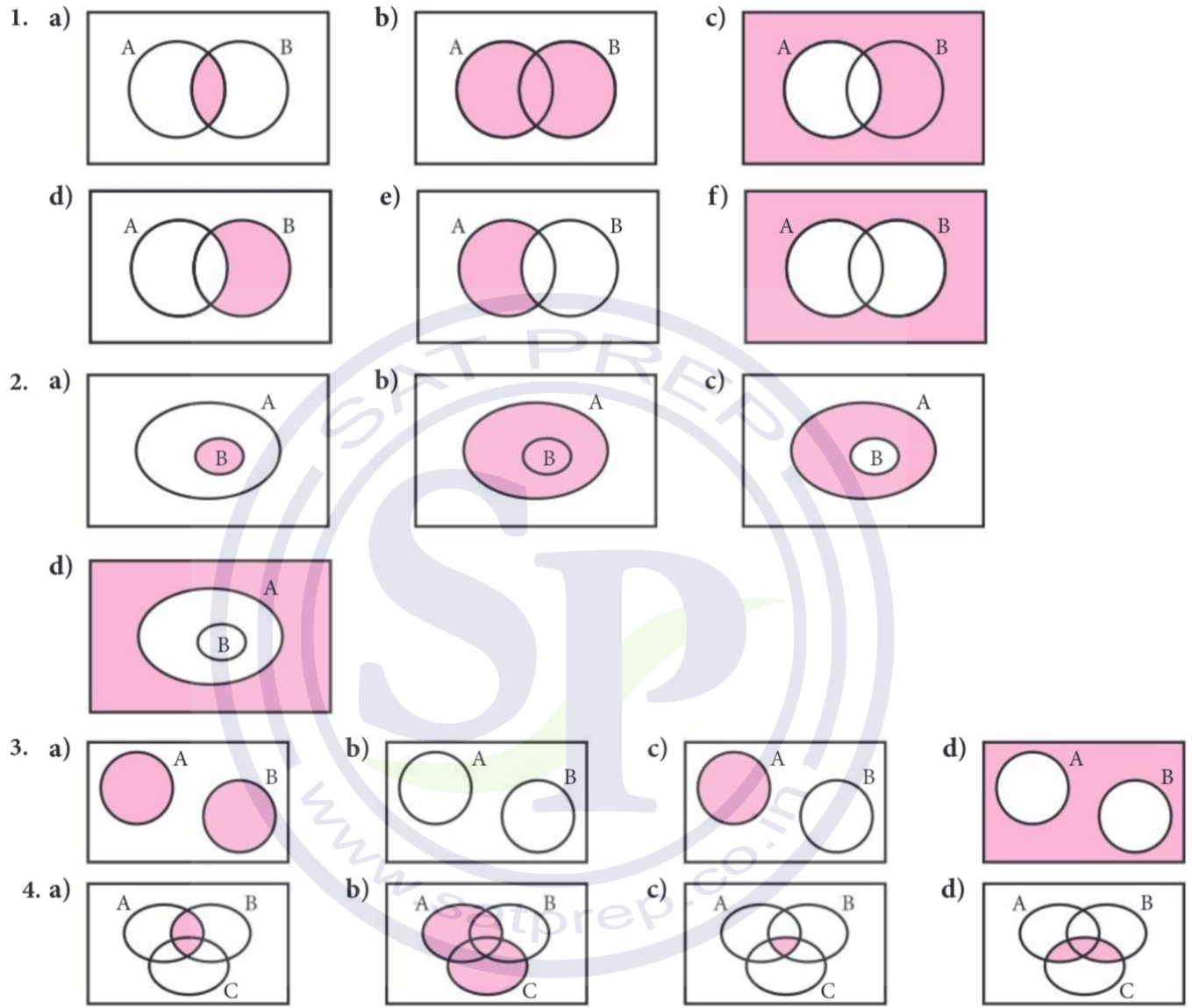
6. Copy each diagram and shade the region indicated.

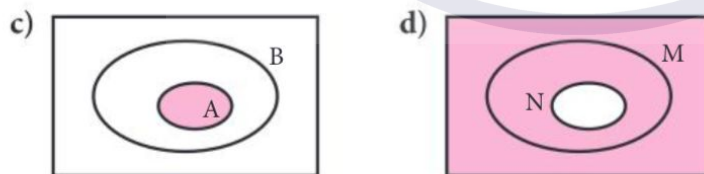
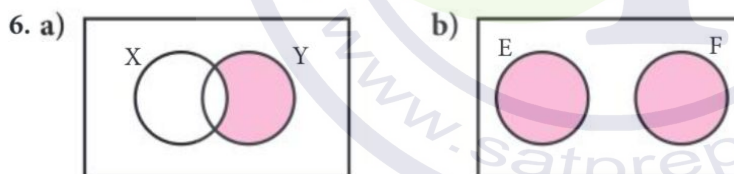
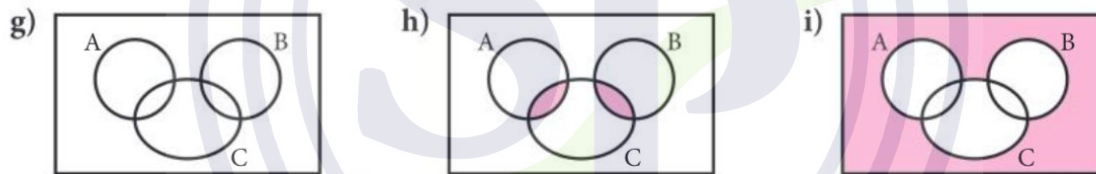
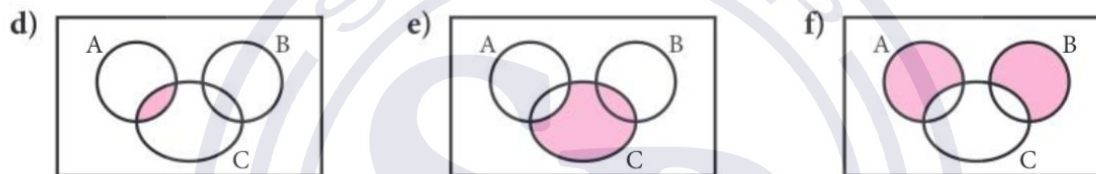
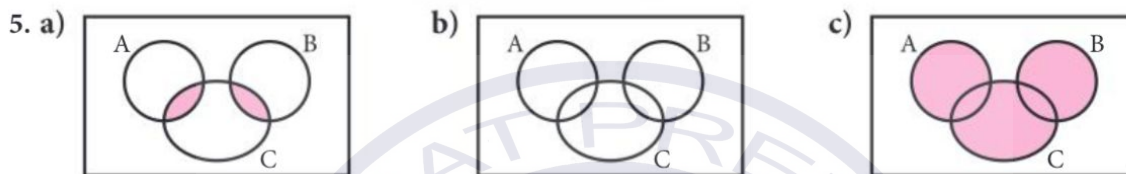
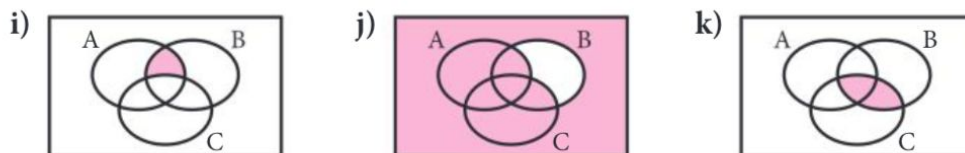
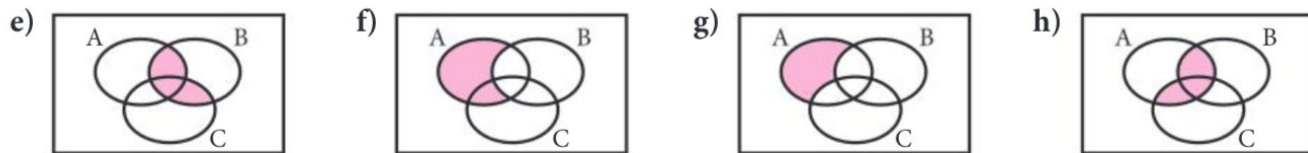


7. Describe the shaded region.



Answer





7. a) $A \cup B$ b) $A' \cap B$ c) $(A \cup B)'$ d) $X' \cap Y$