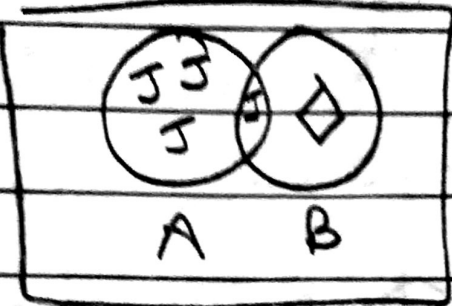
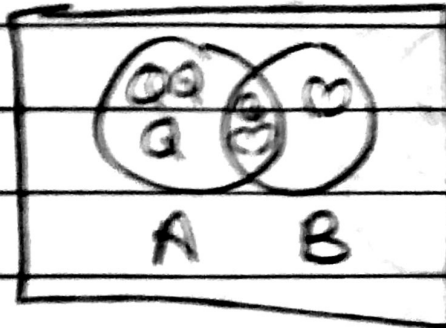
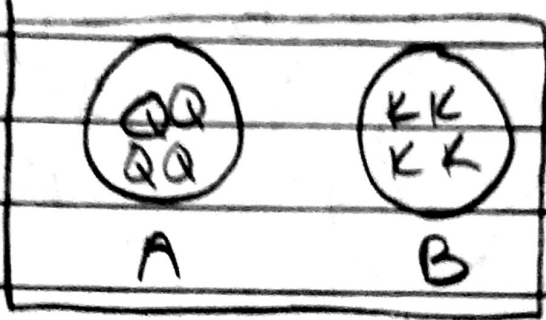
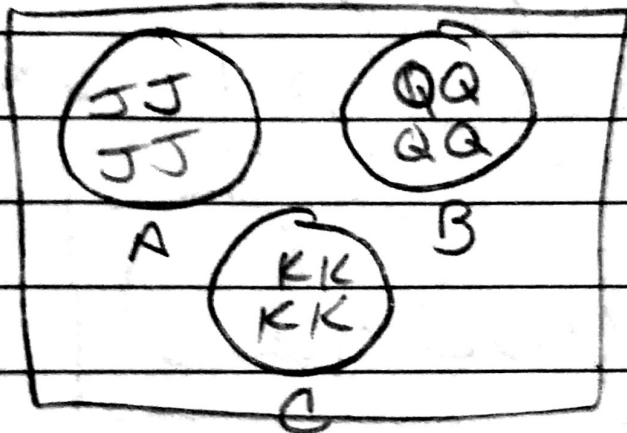
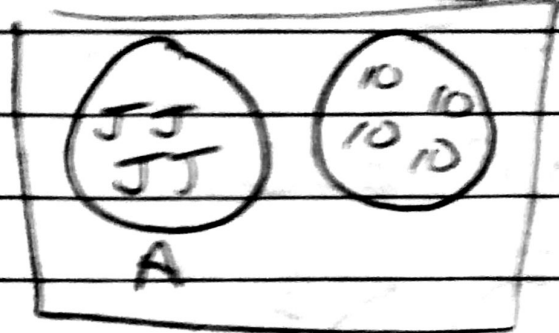


12.2 p.22 # 1-26

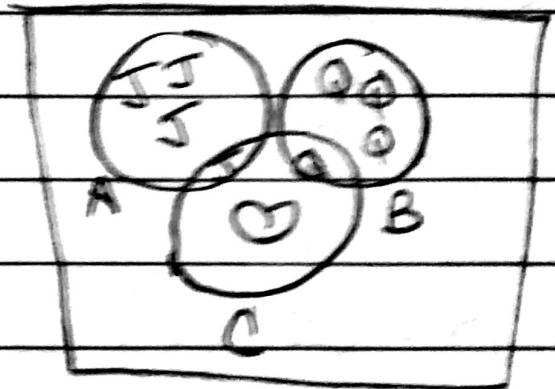
p.70 # 47-50



4)

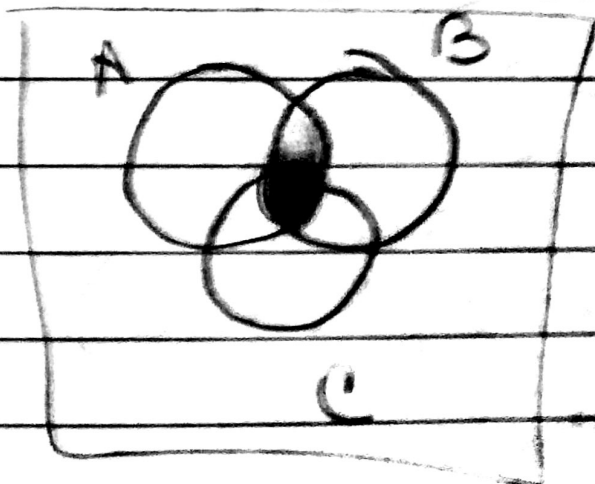
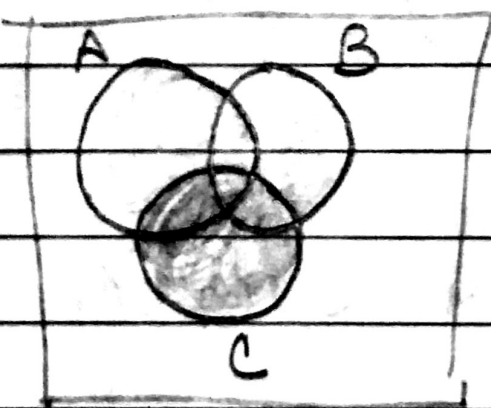


6)

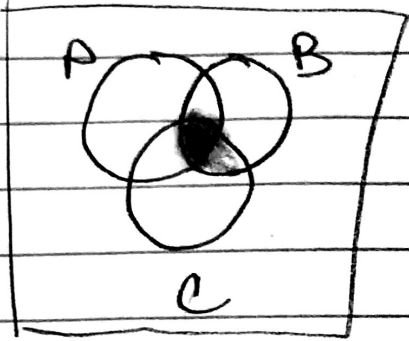


$(A \cup B) \cup C$

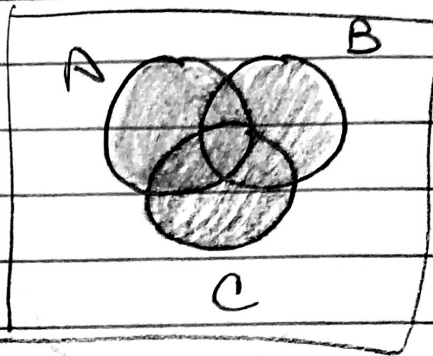
8) $(A \cap B) \cap C$



9) $A \cap (B \cap C)$

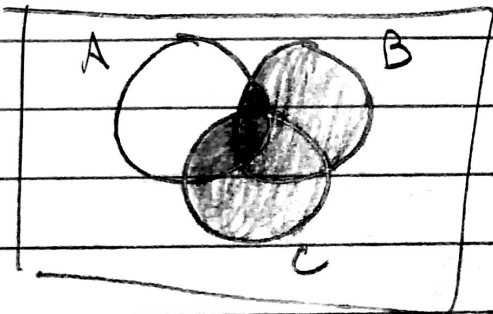


10) $A \cup (B \cap C)$

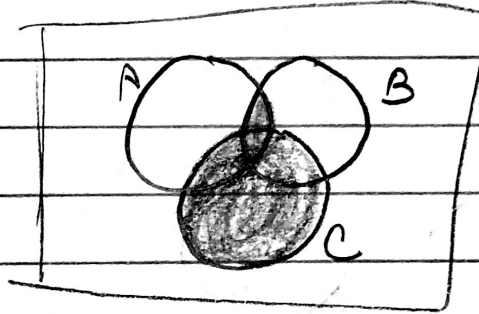


all of
A, B, & C

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

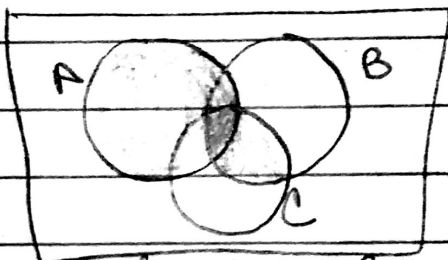


12) $(A \cap B) \cup C$

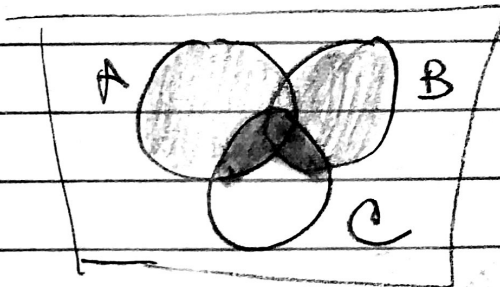


TOTAL
SHADED
AREA

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



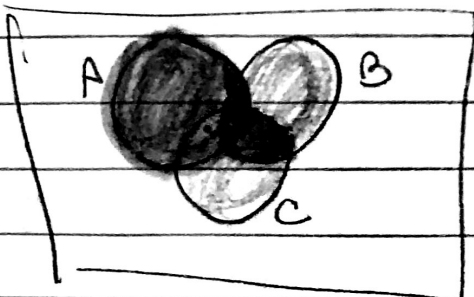
14) $(A \cup B) \cap C$



overlap

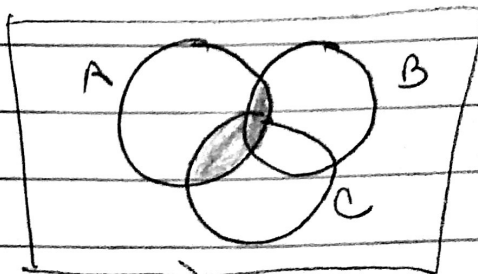
Total shaded
area

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



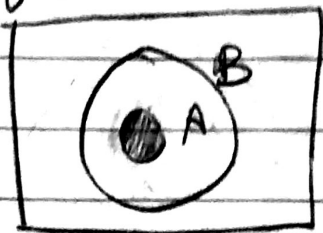
A & intersections

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

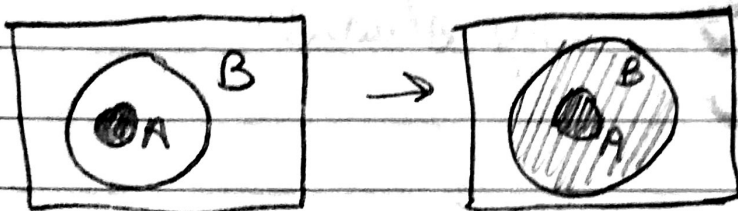


all
shaded

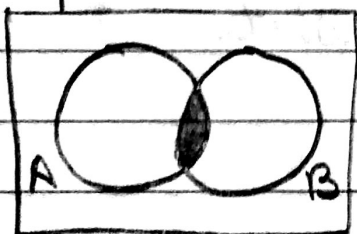
17) If $A \subset B$ then $A \cap B = A$



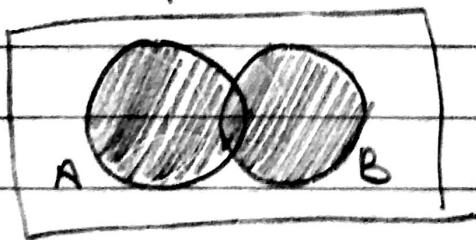
18) $A \subset B$ then $A \cup B = B$



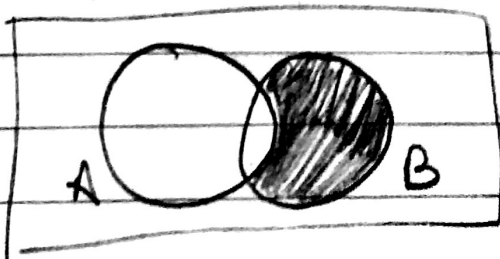
19) $\{x \mid x \in A \text{ \& } x \in B\}$



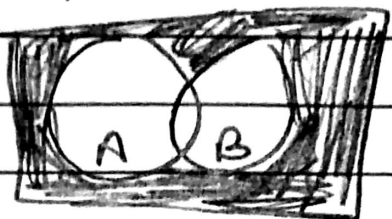
20) $\{x \mid x \in A \cap x \in B\}$



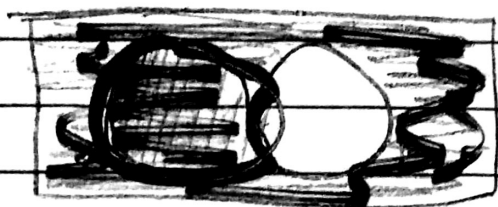
21) $\{x \mid x \notin A \text{ \& } x \in B\}$



$$22) \{x \mid x \notin A \neq x \notin B\}$$



$$23) \{x \mid x \in A \text{ or } x \notin B\}$$



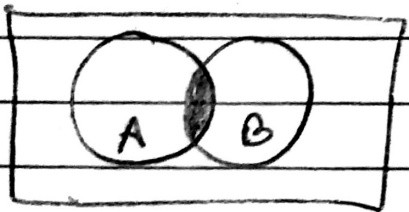
any shaded

$$24) \{x \mid x \notin A \text{ or } x \notin B\}$$

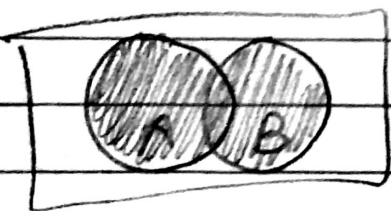


all but white

$$25) \{x \mid x \in A \cap B\}$$



$$26) \{x \mid x \in A \cup B\}$$



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47) $(A \cup B) \cap C$ or $(A \cap C) \cup (B \cap C)$

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

49) $A \cap (B \cup C)$ or $(A \cap C) \cup (A \cap B)$

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