

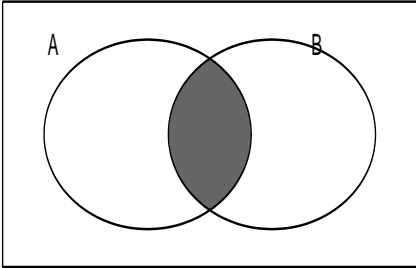
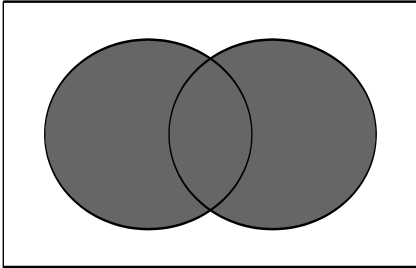
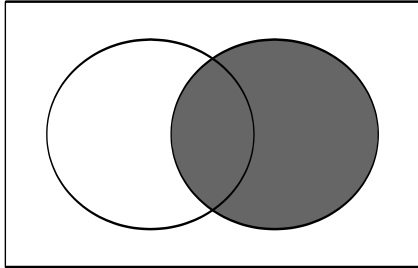
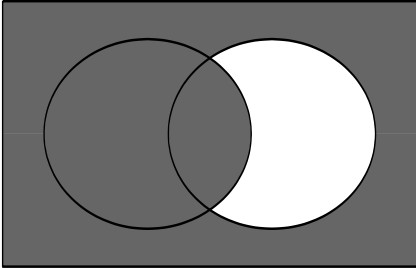
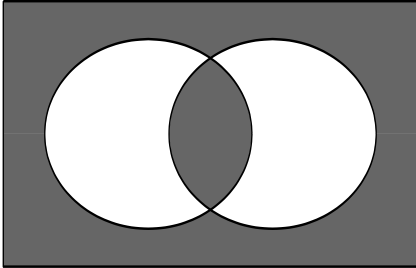
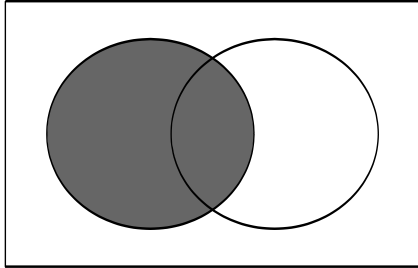
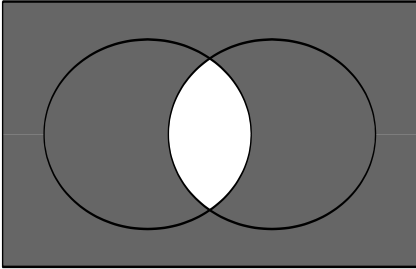
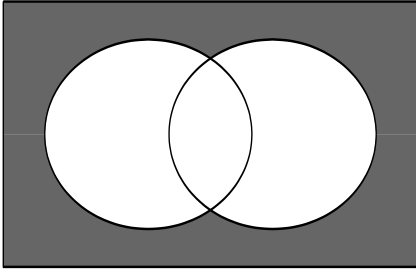
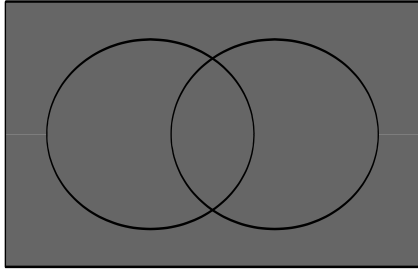
SET THEORY Venn Diagrams

Note ALL the following symbols: $U = \{1,2,3,4,5,6,7,8\}$ $A = \{2,4,6,8\}$ $B = \{2\}$ $C = \{3,5\}$ $2 \in A$ $3 \notin A$

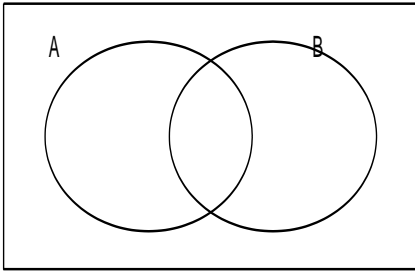
$B \subset A$ $A \not\subset B$ $n(A) = 4$ $|B| = 1$ $A \cup C = \{2,3,4,5,6,8\}$ $A \cap B = \{2\}$

$A \cap C = \{\}$ or \emptyset $\overline{A} = \{1,3,5,7\}$ $\overline{A \cup C} = \{1,7\}$

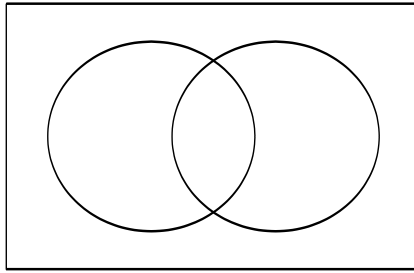
Below the following venn diagrams, write in symbolic form e.g. $A \cup B$

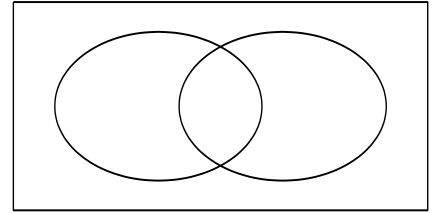
Shade the following venn diagrams appropriately.



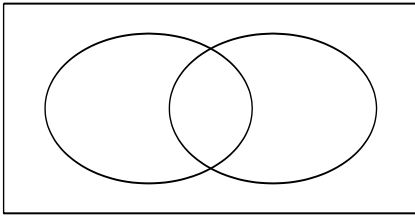
$$A \cup B$$



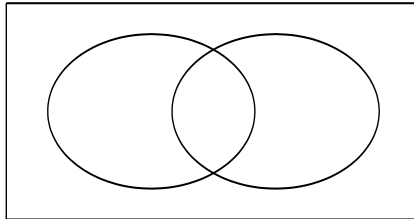
$$A \cap B$$



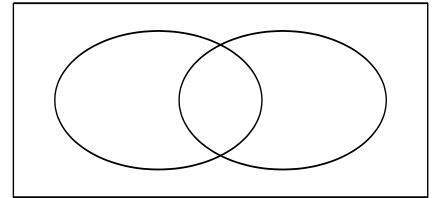
$$\overline{(A \cup B)}$$



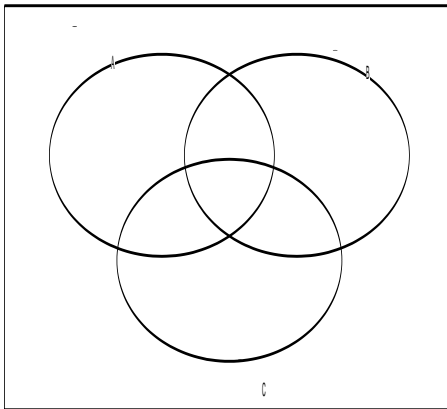
$$\overline{A} \cup B$$



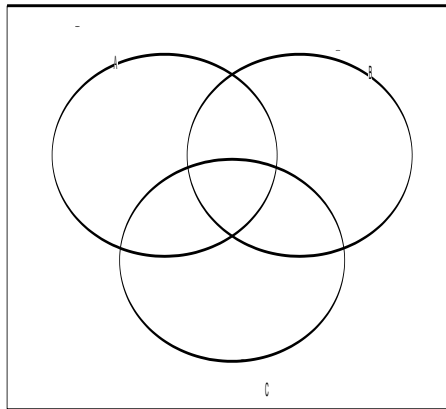
$$A \cap \overline{B}$$



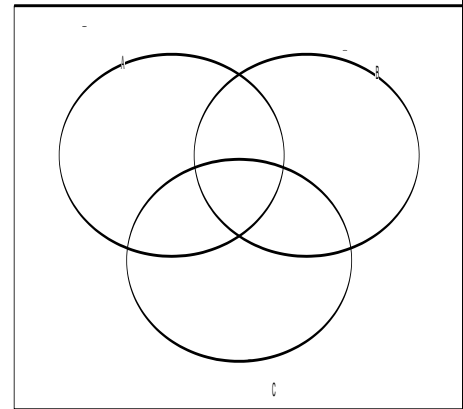
$$\overline{A} \cap \overline{B}$$



$$A \cap B \cup C$$



$$A \cup B \cap \overline{C}$$



$$A \cap \overline{(B \cup C)}$$