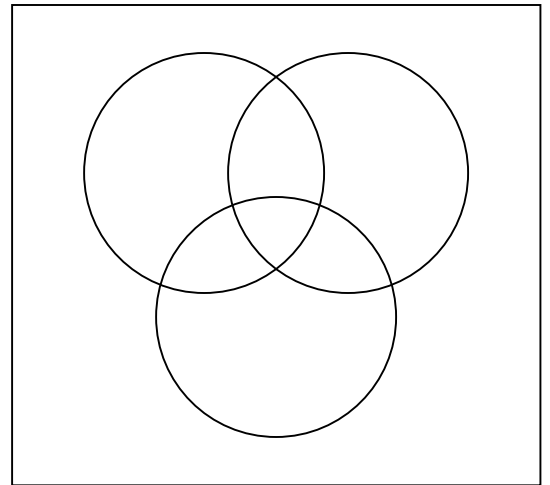


Set Notation and Venn Diagrams

Given $U = \{1, 4, 7, 8, 11, 14, 17, 18, 19, 21, 24, 27, 30\}$, $A = \{1, 7, 8, 14, 19\}$,
 $B = \{1, 4, 14, 24\}$, $C = \{14, 17, 18, 19, 21, 24\}$, find the following sets.

1. Draw a Venn Diagram to represent the sets U, A, B, and C.



2. $A \cap B$

3. $A \cup B$

4. $A \cap C$

5. A'

6. B'

7. C'

8. $C \cap B$

9. $A \cup C$

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

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

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

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

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

15. Given $A = \{-2, 0, 2, 4\}$, $B = \{-1, 0, 1, 2\}$, and $C = \{0, 1, 2, 3, 4\}$, draw a Venn Diagram to represent the sets.

16. Given $A = \{-4, -2, 0, 2, 4\}$, $B = \{-3, -1, 1, 3\}$, and $C = \{-2, -1, 0, 1, 2\}$, draw a Venn Diagram to represent the sets.