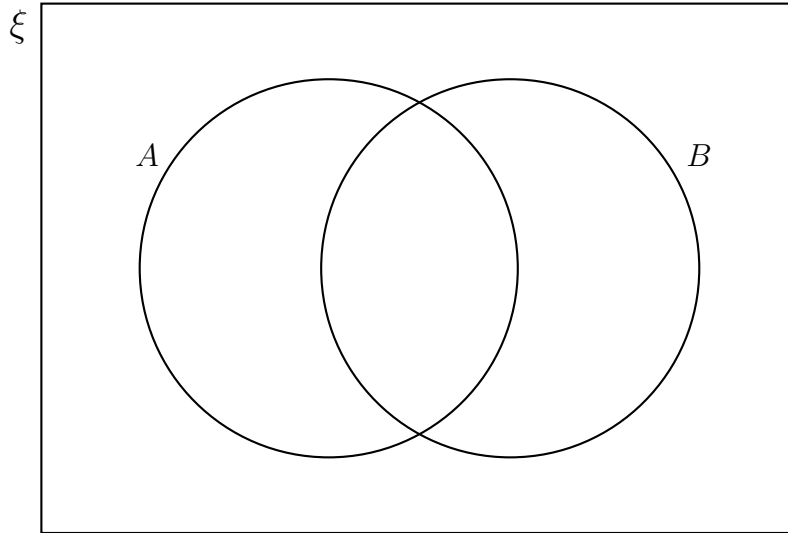


1. $\xi = \{\text{bird, blue, cat, rabbit, red, room, thick, thin}\}$

$$A = \{\text{bird, cat, rabbit, room}\}$$

$$B = \{\text{bird, blue, room, thin}\}$$

Complete this Venn diagram for this information.

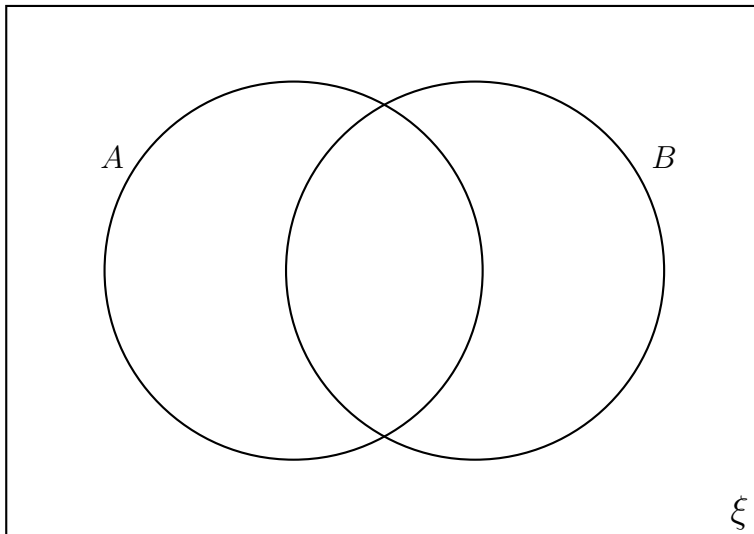


2. $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

$$A = \{1, 3, 5, 7, 9\}$$

$$B = \{1, 4, 9\}$$

Complete this Venn diagram for this information.

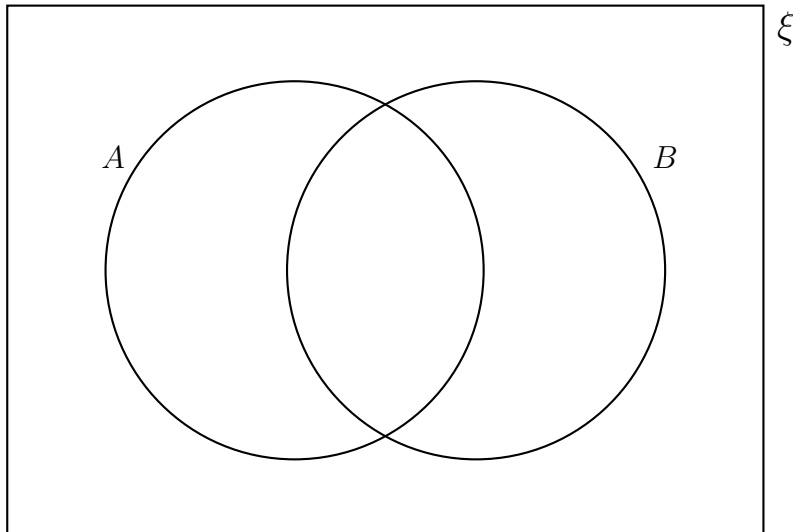


$$3. \xi = \{\blacktriangle, \triangle, \blacklozenge, \blacksquare, \bigcirc, \heartsuit, \clubsuit, \spadesuit, \diamond\}$$

$$A = \{\clubsuit, \spadesuit, \blacktriangle\}$$

$$B = \{\blacktriangle, \triangle, \diamond, \blacklozenge, \blacksquare\}$$

Complete this Venn diagram for this information.



1. Ans

$$A \cap B' = \{\text{cat, rabbit}\}$$

$$A \cap B = \{\text{bird, room}\}$$

$$A' \cap B = \{\text{blue, thin}\}$$

$$A' \cap B' = \{\text{red, thick}\}$$

2. Ans

$$A \cap B' = \{3, 5, 7\}$$

$$A \cap B = \{1, 9\}$$

$$A' \cap B = \{4\}$$

$$A' \cap B' = \{2, 6, 8, 10\}$$

3. Ans

$$A \cap B' = \{\clubsuit, \spadesuit\}$$

$$A \cap B = \{\blacktriangle, \blacklozenge, \blacksquare\}$$

$$A' \cap B = \{\blacklozenge, \triangle\}$$

$$A' \cap B' = \{\circ, \heartsuit\}$$