

Example : Answer the following question :

$$S = \{a, b, c, d, \{2\}\}$$

$$|S| =$$

$$A = \{1, 2, 3, \{2, 3\}, 9\}$$

$$|A| =$$

$$U = \{1, 2, 3, 4, 5\}, A = \{1, 3\}$$

$$\hat{A} = \{ \quad \}$$

Draw a Venn Diagram

$$A = \{1, 2, 3, 4, 7\}$$

$$B = \{0, 3, 5, 7, 9\}$$

$$C = \{1, 2\}$$

$$S = \{a, b, c, d, \{2\}\}$$

$$|S| = 5$$

$$A = \{1, 2, 3, \{2, 3\}, 9\}$$

$$|A| = 5$$

$$U = \{1, 2, 3, 4, 5\}, A = \{1, 3\}$$

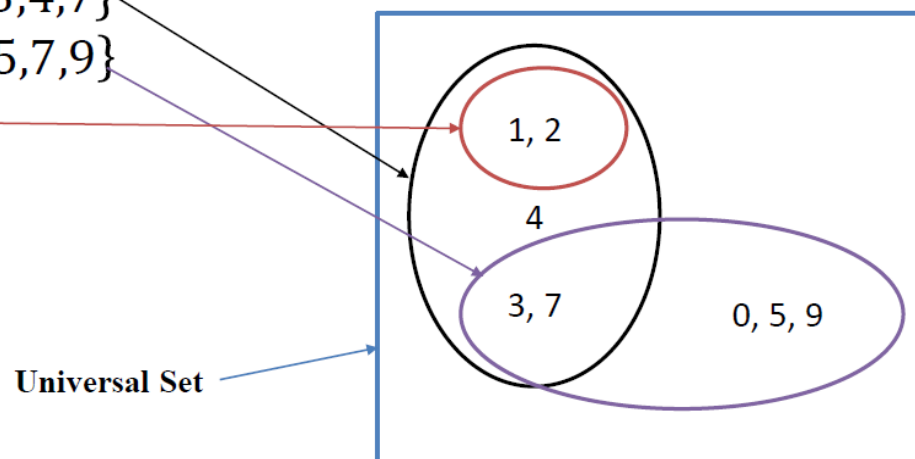
$$A = \{2, 4, 5\}$$

Venn Diagram

$$A = \{1, 2, 3, 4, 7\}$$

$$B = \{0, 3, 5, 7, 9\}$$

$$C = \{1, 2\}$$



$$A \times B \times C, \text{ where } A = \{0, 1\}, B = \{1, 2\}, \text{ and } C = \{0, 1, 2\}$$

$$A \times B \times C = \{(0, 1, 0), (0, 1, 1), (0, 1, 2), (0, 2, 0), (0, 2, 1), (0, 2, 2), \\ (1, 1, 0), (1, 1, 1), (1, 1, 2), (1, 2, 0), (1, 2, 1), (1, 2, 2)\}.$$