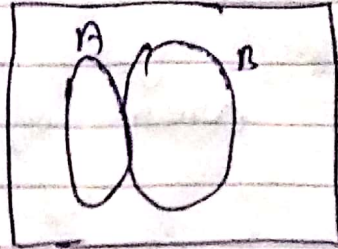


Ques: 1
Ans: 1

Section-3



$$A \text{ फलसुत } 23 \quad n(A) = 193$$

$$B = 7 \text{ गण } \Rightarrow n(B) = 200$$

$$n(\bar{A} \cap \bar{B}) = 80$$

$$n(A \cap B) = ?$$

$$n(A \cup B) = n(U) - n(\bar{A} \cap \bar{B})$$

$$\Rightarrow 450 - 80 = 370$$

$$n(A \cap B) = n(A) + n(B) - n(A \cup B)$$

$$= 193 + 200 - 370$$

$$= 23$$

Ans

Ques: 1
QID

Ans: - OP

Section - 3

$$\text{Let } y = \frac{1}{2 - \cos 3x}$$

$$\Rightarrow 2 - \cos 3x = \frac{1}{y} \quad \text{or} \quad \cos 3x = 2 - \frac{1}{y}$$

$$\Rightarrow 1 \leq \left(2 - \frac{1}{y}\right) \leq 1 \quad \because (1 \leq \cos 3x \leq 1)$$

$$2) 1 \leq 2 - \frac{1}{y} \quad \text{and} \quad 2 - \frac{1}{y} \leq 1$$

$$y \leq \frac{1}{3} \quad \text{and} \quad y \leq 1 \quad \text{i.e.} \quad \frac{1}{3} \leq 1$$

$$R_f = \text{Rang}(f) = \left[\frac{1}{3}, 1\right]$$

A₂