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CH-10

Ex-1-10(D)



1 State whether the given set infinite or finite

(i) $\{3, 5, 7, \dots\}$

Ans Infinite

(ii) $\{1, 2, 3, 4\}$

Ans Finite

(iii) $\{-3, -2, -1, 0, 1, 2\}$

Ans Infinite

(iv) $\{20, 30, 40, 50, \dots, 200\}$

Ans Finite

2 Which of the following set is empty?

(i) Set of counting numbers between 5 and 6

Ans Empty

(ii) Set of odd numbers between 7 and 19

Ans It is not empty

(iii) Set of odd numbers between 7 and 19

Ans empty

(iv) Set of even numbers that are not divisible by 2

Ans empty

(v) $\{0\}$

Ans It is not empty

3. State which pair of sets given below are equal sets and which are equivalent.

(i) Ans equal

(ii) Ans \rightarrow equivalent

(iii) Ans equivalent Equal

(iv) Ans equivalent

4. State which of the following are finite set and which are infinite

(i) Set of integers

Ans \rightarrow Infinite

(ii) { Multiple of 5 }

Ans \rightarrow Infinite

(iii) { Fraction between 1 and 2 }

Ans \rightarrow Infinite

(iv) { Number of people in India }

Ans \rightarrow Finite

(v) Set of trees in the world

Ans \rightarrow Infinite

(vi) Set of leaves on a tree

Ans \rightarrow Infinite

(vii) Set of children in all the school of Delhi

Ans \rightarrow Finite

(viii) $\{ \dots, -4, -2, 0, 2, 4, 6, 8 \}$

Ans Infinite

(ix) $\{ -12, -9, -6, -3, 0, 3, 6, \dots \}$

Ans Infinite

(x) $\{ \text{Number of points in a line segment 4cm long} \}$

Ans Infinite

5. State whether or not the following sets are empty

(vi) set of even numbers not divisible by 2

Ans Empty

(vii) set of multiples of 3 that are more than 9 and less than 15

Ans Not empty