

Ex-10.2

1. i) $\{3, 5, 7, \dots\}$

ans:- Infinite

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

ans:- Finite

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

ans:- Infinite

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

ans:- Finite

2. Ai) Empty

Aii) Not empty

Aiii) Empty

Aiv) Empty

Av) Not empty

3. i) $\{3, 5, 7\}$ and $\{5, 3, 7\}$

ans:- Equal

ii) $\{8, 6, 10, 12\}$ and $\{3, 2, 4, 6\}$

ans:- Equivalent

iii) $\{7, 7, 2, 2\}$ and $\{1, 2, 7\}$

ans:- Equal

iv) $\{2, 4, 6, 8, 10\}$ and $\{a, b, d, e, m\}$

ans - Equivalent.

A_v is Not empty

4. A_i is Infinite

A_{ii} is Infinite

A_{iii} is Infinite

A_{iv} is Finite

A_v is Infinite

A_{vi} is Finite

A_{vii} is Finite

A_{viii} is Infinite

A_{ix} is Infinite

5. A_i is Not empty

A_{ii} is Empty

A_{iii} is Empty

A_{iv} is Not empty

A_v is Not empty

A_{vi} is Empty