

HW

30/09/2021

Ex-10 (D)

i) $\{3, 5, 7, \dots\}$ - Infinite

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

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

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

v) Set of counting numbers between 5 and 6. - Empty

ii) Set of odd numbers between 7 and 19: $\{9, 11, 13, 15, 17, 19\}$

iii) Set of odd numbers between 7 and 9: - Empty

iv) Set of even ~~of divisible~~ ^{number that are} by not divisible by 2 - Empty

v) $\{0\}$ - Empty

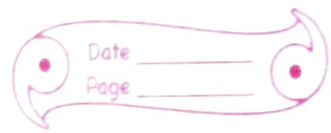
3) i) $\{3, 5, 7\}$ and $\{5, 3, 7\}$ - Equivalent

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

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

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

EX-8 (E)



$$1) i) A = \{0, 1, 2, 4\}$$

$$2) i) A = \{\text{Natural number less than 10}\}$$
$$= \{9\}$$

$$ii) B = \{\text{Letters of the word 'PUPPET'}\}$$
$$= \{P, U, E, T\}$$

$$iii) C = \{\text{Squares of the first four whole numbers}\}$$
$$= \{1^2, 2^2, 3^2, 4^2\} = \{1, 4, 9, 16\}$$

$$iv) D = \{\text{Odd numbers divisible by 2}\}$$
$$= \{0\}$$

$$3) i) \text{ False } n(A) = 1$$

$$ii) \text{ False } n(\emptyset) = 0$$

$$iii) \text{ True}$$

$$iv) \text{ False } n(B) = 4$$