

14/7/21  
HW.

Exercise = 10 (D)

1. i) Infinite (ii) finite (iii) Infinite (iv) finite

2. i) Empty Sets of counting numbers between 5 and 6. (Empty)

iii) set of odd numbers between 7 and 9. ~~Empty~~ (Empty)

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

3. i)  $\{3, 5, 7\} \in \{5, 3, 7\}$  (ii)  $\{8, 6, 10, 12\} \notin \{3, 2, 4, 6\}$

iii)  $\{7, 2, 1, 2\} \in \{1, 2, 7\}$  (iv)  $\{2, 4, 6, 8, 10\} \notin \{a, b, d, m\}$

4. i) Infinite (ii) Infinite (iii) Infinite (iv) finite

v) Infinite (vi) finite (vii) finite (viii) Infinite

ix) Infinite (x) Infinite

5. i) No (ii) Empty (iii) Empty (iv) NO (v) NO (vi) Empty

vii) No Empty

6. i) Equivalent (ii) Equal (iii) Equal (iv) ~~empty~~ Equal

v) Equal (vi) Equivalent

7. i) finite (ii) infinite (iii) finite (iv) infinite

vi) finite

8. i) False (ii) ~~False~~ True (iii) True (iv) True (v) True

vi) False (vii) True (viii) False

ai) Disjoint sets (ii) overlapping sets (iii) overlapping sets

iv) overlapping sets (v) overlapping sets (vi) Disjoint sets

