

Exercise 10 (E)

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

$$n(A) = 4.$$

ii) Since $B = \{-3, -1, 1, 3, 5, 7\}$

$$n(B) = 6$$

iii) ~~C =~~ Since $C = \{ \}$

So, C is an empty set, i.e. $n(C) = 0$

iv) ~~D =~~ Since $D = \{3, 2, 2, 1, 3, 1, 2\} = \{3, 2, 1\}$

$$\nabla n(A) \rightarrow n(D) = 3.$$

v) $n(E) = 4.$

vi) $n(F) = 7$

2. i) $n(A) = 9, A = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

ii) $n(B) = 4, B = \{~~p~~, u, e, t\}$

iii) $C = \{0, 1, 4, 9\}, n(C) = 4$

iv) $D = \{\}, n(D) = 0$

3. i) False

ii) If $A = \{0\}$, then $n(A) = 1$

iii) $n(\emptyset) = 1$

False

$n(\emptyset) = 0$

iv) True

v) False

$B = \{1, 5, 5, 1, 5, 5, 1\} = \{1, 5, 5, 1, 5\}$, then $n(B) = 4$

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