

$$9) \{x : x \in \mathbb{N}, 10 \leq x < 35\}$$

$$= \{10, 11, 12, 13, 14, 15, 16, 17, 18, \dots, 34, 35\}$$

$$A = \{x \in \mathbb{N} : x \leq 16\}$$

$$= \{10, 11, 12, 13, 14, 15, 16\}$$

$$B = \{x : x > 29\}$$

$$= \{30, 31, 32, 33, 34, 35\}$$

$$i) A' = \{17, 18, 19, 20, 21, \dots, 33, 34, 35\}$$

$$= \{x : x \in \mathbb{N} \text{ and } 17 \leq x < 35\}$$

$$ii) B' = \{0, 1, 2, 3, 34, 35\}$$

$$= \{0, 1, 11, 12, 13, 14, 15, 16, \dots, 29\}$$

$$= \{x : x < 29\}$$

$$10) \{x \in \mathbb{Z} : -6 < x \leq 6\}$$

$$= \{-6 < x \leq 6\}$$

$$= \{-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$$

$$N = \{x : x \text{ is a non-negative number}\}$$

$$= \{0, 1, 2, 3, 4, 5, 6\}$$

$$P = \{x : x \text{ is a non-positive number}\}$$

$$= \{-5, -4, -3, -2, -1, 0\}$$

$$i) N' = \{-5, -4, -3, -2, -1\}$$

$$ii) P' = \{1, 2, 3, 4, 5, 6\}$$

1) $M = \{\text{letter of word REAL}\}$
 $= \{R, E, A, L\}$

$N = \{\text{letter of word LAKE}\}$
 $= \{L, A, R, E\}$

i) $M \subseteq N$ is true Yes

ii) $N \subseteq M$ is true Yes

iii) $M = N$ is true Yes.