

$$A = \{a, 1, 2\}, B = \{a, b, 1\}$$

$$A \cap B = \{a, 1\}, A \cup B = \{a, 1, 2, b\}$$

$$A \setminus B = \{2\}, B \setminus A = \{b\}$$

$$A \times B = \{(a, a), (a, b), (a, 1), (1, a), (1, b), (1, 1), (2, a), (2, b), (2, 1)\}$$

$$B \times A = \{(a, a), (a, 1), (a, 2), (b, a), (b, 1), (b, 2), (1, a), (1, 1), (1, 2)\}$$

$$A = \{2n-1 \mid n \in \mathbb{N}\}, B = \{-1, 0, 1, 2, 3\}$$

$$A \cap B = \{1, 2, 3\}$$

$$A \cup B = \{1, 2, 3\}$$

$$A \setminus B = \{(2n-1 \mid n \in \mathbb{N}) \mid n \notin \{1, 2, 3\}\}$$

$$B \setminus A = \{-1, 0\}$$

$$\boxed{2n-1 \mid n \in \mathbb{N} = \mathbb{C}}$$

$$A \times B = \{(c, -1), (c, 0), (c, 1), (c, 2), (c, 3)\}$$

$$B \times A = \{(-1, c), (0, c), (1, c), (2, c), (3, c)\}$$

$$A = (-\infty; 3) \quad , \quad B = [-1, +\infty)$$

$$A \cap B = \{[-1, 3)\}$$

$$A \cup B = \{(-\infty; +\infty)\}$$

$$A \setminus B = \{(-\infty; -1)\}$$

$$B \setminus A = \{[3; +\infty)\}$$

$$A \times B = \{(-\infty, -1), (-\infty, +\infty), (3, -1), (3, +\infty)\}$$

$$B \times A = \{(-1, -\infty), (-1, 3), (+\infty, -\infty), (+\infty, 3)\}$$

$$A \cap B = \{-1, 3\}$$

$$A \cup B = \{-1, 3\}$$

$$A \setminus B = \{(-\infty; -1)$$

$$B \setminus A = \{[0; 3) \cup (3; +\infty)\}$$