

Изучение и применение
задачи 1

$$A = \{1, 2, 3, 4, 5, 6, 7\}, B = \{4, 5, 6, 7, 8, 9, 10\},$$

$$C = \{2, 4, 6, 8, 10\}, U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}.$$

$$a) A \cup C = \{1, 2, 3, 4, 5, 6, 7, 8, 10\}$$

$$b) A \cap (B \cup C) = A \cap \{2, 4, 5, 6, 7, 8, 9, 10\} = \\ = \{2, 4, 5, 6, 7\}$$

$$c) A \cap B = \{4, 5, 6, 7\}$$

$$d) (A \cap B) \cup C = \{2, 4, 5, 6, 7, 8, 10\}$$

$$e) (A \cap B)' = \{1, 2, 3, 8, 9, 10\}$$

$$f) A' \cap B' = \{8, 9, 10\} \cap \{1, 2, 5\} = \emptyset$$

$$g) A \Delta B = \{1, 2, 3, 8, 9, 10\}$$

$$h) A \setminus B = \{1, 2, 3\}$$

$$i) A = \{1, 2, 3, 4, 5, 6, 7\}, B = \{4, 5, 6, 7, 8, 9, 10\},$$

$$C = \{2, 4, 6, 8, 10\}, U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$$j) A - C = \{1, 3, 5, 7\}$$

$$l) (A - B) \cup (B - A) = \{1, 2, 3\} \cup \{8, 9, 10\} = \{1, 2, 3, 8, 9, 10\}$$

$$m) A \cap (B \cap C') = \{1, 2, 3, 4, 5, 6, 7\} \cap \{5, 7, 9\} = \{5, 7\}$$

$$n) (A \cup C) - B' = \{1, 2, 3, 4, 5, 6, 7, 8, 10\} - \{1, 2, 3\} =$$

$$= \{4, 5, 6, 7, 8, 10\}$$

$$o) (A - \emptyset) \cup (A - A) = \{1, 2, 3, 4, 5, 6, 7, \emptyset\}$$

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20. VIII.

$$\text{e)} B \Delta C = \{2, 5, 4, 9\}$$

$$\text{m)} C - A = \{8, 10\}$$

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