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Matematika Diskrit

NIM : 201011402125

Pertemuan 2

No
Date

Latihan 1:

Diketahui :

$$\bullet S = \{1, 2, 3, \dots, 10\}$$

$$\bullet A = \{1, 4, 7, 10\}$$

$$\bullet B = \{1, 2, 3, 4, 5\}$$

$$\bullet C = \{2, 4, 6, 8\}$$

Tentukan :

$$1. A \cup B = \{1, 2, 3, 4, 5, 7, 10\}$$

$$2. B \cap C = \{2, 4\}$$

$$3. A - B = \{7, 10\}$$

$$4. B - C = \{1, 3, 5\}$$

$$5. A \oplus B = \{2, 3, 5, 7, 10\}$$

$$6. B' \cap (C - A) = \{6, 8\}$$

$$B' = \{6, 7, 8, 9, 10\}$$

$$(C - A) = \{2, 6, 8\}$$

$$7. A \cap (B \cup C) = \{1, 4\}$$

$$(B \cup C) = \{1, 2, 3, 4, 5, 6, 8\}$$

$$8. (A \cap B) - C = \{1\}$$

$$(A \cap B) = \{1, 4\}$$

$$9. (A \cup B) - (C - B) = \{1, 2, 3, 4, 5, 7, 10\}$$

$$(A \cup B) = \{1, 2, 3, 4, 5, 7, 10\}$$

$$(C - B) = \{6, 8\}$$

$$10. (\overline{A \cap B}) \cup C = \{2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$$(\overline{A \cap B}) = \{2, 3, 5, 6, 7, 8, 9, 10\}$$

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Latihan 2:

Sajikan himpunan di bawah ini dengan Notasi himpunan!

(i) A berisi huruf a, b, c, d, e

$$A = \{x \mid x \text{ adalah 5 abjad pertama}\}$$

$$\text{Ekuivalen: } A = \{a, b, c, d, e\}$$

(ii) $B = \{2, 4, 6, 8, \dots\}$

$$B = \{x \mid x \text{ adalah bilangan asli genap}\}$$

(iii) C berisi Propinsi - Propinsi di Pulau Jawa

$$C = \{x \mid x \text{ adalah Banten, DKI Jakarta, Jawa barat, Jawa tengah, Jawa Timur, Yogyakarta}\}$$

(iv) $D = \{5\}$

$$D = \{x \mid x \in P, x > 4, x < 6\}$$