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Tugas

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Contoh himpunan :

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1). Kumpulan nama buah yg diawali dgn huruf A

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2). Kumpulan bilangan genap kurang dari 20

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3). " alat mandi

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Contoh bukan himpunan :

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1). Kumpulan siswa yg bodoh

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2). " orang yg kaya

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3). " " Pendek

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2). $S = \{ x \mid 0 < x < 10, x \in \text{bilangan} \} = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

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$A = \{ x \mid x < 9, x \in \text{prima} \} = \{2, 3, 5, 7\}$

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$B = \{ x \mid x < 9, x \in \text{ganjil} \} = \{3, 5, 7\}$

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Tentukan :

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A). $A \cap B = \{3, 5, 7\}$

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B). $A \cup B = \{2, 3, 5, 7\}$

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C). $A - B = \{2\}$

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$B - A = \{ \}$

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D). $A - (B \cap A) =$

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$A = \{2, 3, 5, 7\}$

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$B = \{3, 5, 7\}$

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$B \cap A = \{3, 5, 7\}$

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$A - (B \cap A) = \{2\}$

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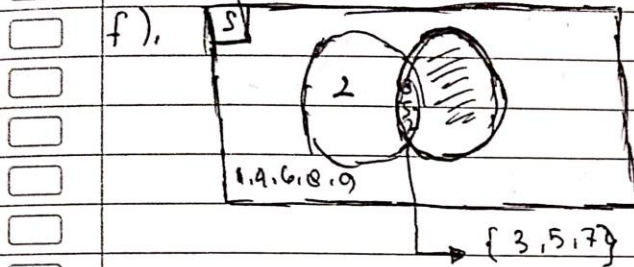
☐ e). $(A \oplus B) - B = \{2\}$

☐ $A - B = \{2\}$

☐ $B - A = \{ \}$

☐ $A \oplus B = \{2\}$

☐ $B = \{3, 5, 7\}$



☐ $A \times B = \{(2, a), (2, b), (3, a), (3, b), (5, a), (5, b), (7, a),$
☐ $(7, b)\}$

☐ 6). $|S| = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

☐ $|A| = \{2, 3, 5, 7\}$

☐ $|B| = \{3, 5, 7\}$

☐ 3. $A \cdot P(A) = \{\}, \{2\}, \{3\}, \{5\}, \{7\}, \{2, 3\}, \{2, 5\}, \{3, 5\}, \{3, 7\},$
☐ $\{5, 7\}, \{2, 3, 5, 7\}.$

☐ $|P(A)| = 2^{|A|}$

☐ $|P(A)| = 2^4$

☐ $= 16 //$

☐ $B \cdot P(B) = \{\}, \{3\}, \{5\}, \{7\}, \{3, 5\}, \{3, 7\}, \{5, 7\}, \{3, 5, 7\}$

☐ $|P(B)| = 2^{|B|}$

☐ $|P(B)| = 2^3$

☐ $= 8 //$

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$$\begin{aligned} \text{Dik: } n(S) &= 35 & n(A \cap B) &= 3 \\ n(A) &= 15 & n(A \cap C) &= 4 \\ n(B) &= 12 & n(B \cap C) &= 4 \\ n(C) &= 12 & n(A \cap B \cap C) &= 2 \end{aligned}$$

$$\text{Dit: } n(A \cap B \cap C)^2 = ?$$

Jawab :

$$n(S) - n(A \cap B \cap C)$$

$$= 35 - 2$$

$$= 33$$

$$= 33$$

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$$\text{Dik: } n(S) = 20$$

$$n(A) = 8$$

$$n(B) = 10$$

$$n(A \cap B)^c = 5$$

$$\text{Dit: } n(A \cap B)?$$

Jawab :

$$n(S) - n(A \cap B)^c$$

$$= 20 - 5$$

$$= 15$$

$$= 15$$

Langutan !

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C). apakah $A = B$? tidak, karena ada elemen dari A
 yang tidak dimiliki oleh B contoh = 2

No.

Date: _____

[illegible]