

$$U = \{x \mid x \in \mathbb{Z}\}, A = \{1, 2, 4, 7\}$$

$$B = \{x \mid x \in \mathbb{Z}; x \text{ es impar};$$

$$0 < x < 20; x \text{ es divisible entre } 3$$

$$C = \{2, 3, 4, 5, 8, 10\}$$

$$D = \{x \mid x \in \mathbb{Z}; x \text{ es primo}; 1 < x < 30.$$

Calcular

$$1. [(A \oplus B) - (C \cup D)]'$$

$$2. [(C \cup D') - (A' \oplus B')] \cap B$$

$$1. [(A \oplus B) - (C \cup D)]'$$

$$[C[A \cup B] - [A \cap B]] - (C \cup D)$$

$$A \cup B = \{$$

$$B = \{3, 6, 9, 12, 15, 18, 21, 24, 27$$

$$1. A \cup B = \{1, 2, 3, 4, 6, 7, 9, 12, 15, 18\}$$

$$2. A \cap B = \emptyset$$

$$3(A \cup B) - (A \cap B) =$$

$$\{1, 2, 3, 4, 6, 7, 9, 12, 15, 18\} - \{\emptyset\} =$$

$$\{1, 2, 3, 4, 6, 7, 9, 12, 15, 18\} = A \oplus B$$

$$4 \text{ } C \cup D = \{2, 3, 5, 7, 11, 13, 17, 19, 23, 29\}$$

$$C \cup D = \{2, 3, 4, 5, 7, 8, 10, 11, 13, 17, 19, 23, 29\}$$

$$(A \oplus B) - (C \cup D) =$$

$$\{1, 6, 8, 9, 10, 11, 13, 12, 15, 17, 18, 19, 23, 29\}$$

$$[(A \oplus B) - (C \cup D)]' =$$

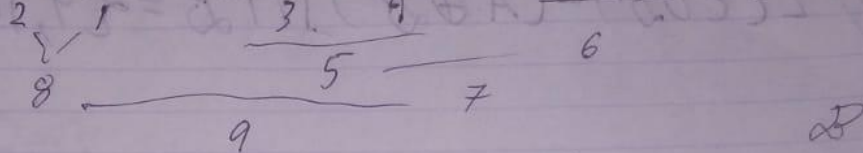
$$\{2, 3, 4, 5, 7, 8, 9, 10\}$$

$$\{2, 3, 4, 5, 7, 16, 14, 20, 21, 22, 24, 25, 26, 27, 28, 30\}$$

$$[(A \oplus B) - (C \cup D)]' = \{2, 3, 4, 5, 7, 14, 16, 20, 21, 22, 24, 25, 26, 27, 28, 30, 12, 18\}$$

$$2[(C \cup D') - (A' \oplus B')] \cap B$$

$$[(C \cup D') - [(A' \cup B') - (A' \cap B')]] \cap B$$



$$2.1 D' = \{4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28\}$$

$$C \cup D' = \{2, 3, 4, 6, 5, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28\}$$

$$A' = \{3, 5, 6\}$$

$$B' = \{2, 4, 8, 10, 14, 16, 20, 22, 26, 28\}$$

$$A' \cup B' = \{2, 3, 4, 5, 6, 8, 10, 14, 16, 20, 22, 26, 28\}$$

$$A' \cap B' = \{ \emptyset \}$$

$$A' \oplus B' = \{2, 3, 4, 5, 6, 8, 10, 14, 16, 20, 22, 26, 28\}$$

$$[(C \cup D') - (A' \oplus B')] = \{9, 12, 15, 18, 21, 24, 25, 27\}$$

$$[(C \cup D') - (A' \oplus B')] \cap B = \{9, 10\}$$

$$B / [(C \cup D') - (A' \oplus B')] \cap B = \{9, 15\}$$