

2nd Quiz, MTH 213 , Fall 2011

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QUESTION 1. (10 points) Let $H = \{3, -6, 2, \{3, -3\}, \{2\}, 10, 13, \{10, -6\}, \{9\}\}$. Just Write down T or F (no justification is required)

- (i) $\{-6\} \in H$
- (ii) $\{2\} \in H$
- (iii) $\{10, -6, 9\} \subset H$
- (iv) $\{-6\} \subset H$
- (v) $\{-6, 10\} \in H$
- (vi) $\{-6, 10\} \subset H$
- (vii) $\{2\} \subset H$
- (viii) $\{2, -6\} \in H$
- (ix) $\{2, -6\} \subset H$
- (x) $\{2, \{2\}\} \subset H$

QUESTION 2. Let $U = \{3, -2, 7, 8, 0, \{7\}, \{0\}, 9, 10, 15, -8, 13, \{Red\}, Blue, 77, \pi, \{-2, 0\}\}$ be a universal set, $A = \{3, -2, 7, 8, 0\}$, and $B = \{\{7\}, 0, \{0\}, 9, 10, 8\}$.

1) Find $A \oplus B$.

2) Find B^c

3) Find $A \cap B^c$

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