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HW

1- $A = \{x: x \in \mathbb{N} \text{ and } 3 < x \leq 6\}$

and $B = \{x: x \in \mathbb{W} \text{ and } x < 4\}$

i- $A = \{4, 5, 6\}$, $B = \{0, 1, 2, 3\}$

ii- $\{0, 1, 2, 3, 4, 5, 6\}$

iii- \emptyset

iv- $\{4, 5, 6\}$

v- $\{0, 1, 2, 3\}$

2 i- $P \cup Q = \{1, 2, 3, 4, 5, 6, 7, 8\}$ and $P \cap Q = \{4, 5\}$

ii Yes

3 i- $\{4, 5, 6, 7, 8, 9\}$ and $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

ii- $\{1, 2, 3, 4, 5, 6, 7\}$ and $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

iii- $\{5, 6, 7\}$ and $\{5\}$

iv- $\{4, 5\}$ and $\{5\}$

Yes ; Yes