

HW SET 3

Section 1.5:

- 5.2, 5.4, 5.20, 5.21, 5.25 (b)(c)(d).
- Let p and q are statements below. Mark “True” or “False” for “If p , then q ”.
 - (1) $p = "x \in A \text{ or } x \in B"$, $q = "x \in A \cup B"$
 - (2) $p = "If x \notin A, \text{ then } x \in B"$, $q = "x \in A \cup B"$
 - (3) $p = "If x \in B, \text{ then } x \in A"$, $q = "x \in A \cap B"$
 - (4) $p = "x \in A \text{ and } x \notin A \setminus B"$, $q = "x \in A \cap B"$
 - (5) $p = "x \in A \cup B \text{ and } x \notin A \cap B"$, $q = "x \in A \setminus B"$

Section 1.6:

- 6.10 (b)(d), 6.11 (f) (g), 6.14, 6.20.