- 14. Complete the following assignment prior to Meeting #4:
 - A. Study our notes from Meeting #3 and comprehend Jim's sample responses to the Quiz #3 prompts that are posted on *Canvas*.
 - B*. Examine each of the following propositions to determine whether or not it is true; display your choice by circling either "T" or "F" (Please post the resulting document (as a PDF file) on the indicated *Assignment* link of *Canvas.*):
 - i. $(A = \{0, 1, 3\} \land B = \mathbb{N}) \Rightarrow A B = B A$
 - TF
 - ii. $7 \in \mathbb{N} \times \mathbb{N}$
 - T F
 - iii. $\mathbb{N} \times \mathbb{N} \subset \mathbb{R} \times \mathbb{R}$
 - TI
 - iv. $\forall A \in \{ \text{ sets } \}, A^{c} A = V \Rightarrow A = \emptyset$
 - T
 - v. $\forall A \in \{\text{sets}\}, A \cap \emptyset = A$
 - TF
 - vi. $A, B \in \{ \text{ sets } \} \Rightarrow A \cap B \subset A$
 - TF
 - vii. $A \in \{ \text{ sets } \} \Rightarrow A \cap A^c = \emptyset$
 - T
 - viii. $A \in \{\text{sets}\} \Rightarrow A \cup A^c = V$
 - T
 - ix. $\forall A \in \{\text{sets}\}, V A^c = A$
 - T
 - x. $(\mathbb{R} (\mathbb{I} \cup \mathbb{Q})) \cap \{x \in \mathbb{R} : x \leq 0\} = [0, \infty)$
 - T F
 - xi. $V = \mathbb{Z} \rightarrow \{ -n : n \in \omega \}^c = \mathbb{N}$
 - TF
 - xii. $(7,0) \in \mathbb{N} \times \mathbb{N}$
 - TF
 - C. Compare your responses to the 12 homework prompts from 14-B to the sample responses and accompanying explanations posted on *Canvas*.
 - D. Comprehend the entries from Lines #011–012 from our Glossary document.