Quiz 4 — MGF 3301 Intro. to Adv. Math

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This is a 30 minute quiz. Discuss the problems in your group, and then write down your own answer. You may also use the back side of the quiz.

1. Which of the following statements is true?
   (a) $\{1, 2, 3\} \subseteq \{1, 2\}$
   (b) $\emptyset \subseteq \emptyset$
   (c) $\{1, 2\} \in \{1, 2, 3\}$.

2. Write down a statement that specifies a unique person/object in the classroom using the format: there exists a unique S, with the property that T.

3. Let A be the set of odd integers that are also squares, and let B be the set of real numbers between 0 and 100. Write down A and B in set notation (symbols and numbers only), and find $A \cap B$.