Math 221: Basic Concepts of Elementary Mathematics I
Quiz #3
Points: Each problem is worth 4 points.

1. Which of the following is not true?
   (a) \( \{1\} \in \{1, 2, 3\} \)  (b) \( \{1, 2\} \subset \{1, 2, 3\} \)
   (c) \( \{1, 2\} \subseteq \{1, 2, 3\} \)  (d) \( \{1, 2, 3\} \subseteq \{1, 2, 3\} \)

2. Which of the following is not true?
   (a) \( \emptyset \not\subset \emptyset \)  (b) \( 0 \not\in \emptyset \)
   (c) \( \{} \not\subset \{} \)  (d) \( \{0\} \not\in \emptyset \)

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Each multiple choice question in this class will be graded as follows. Your answer should be clearly indicated by a circle around your choice for the answer. Circle the whole answer including the letter. You will get 0 points if a wrong answer is circled (even if a correct answer is also circled), you will get 1 point if no answer is circled, and you will get 4 points for a correct answer. Do not put other marks on or around the choices. If other marks are on or around the choices (for example, if a rectangle is placed around an answer), then you will likely get 0 points for your answer depending solely on what the instructor thinks the marks indicate.