

Quiz 7 - Math 374, Frank Thorne (thorne@math.sc.edu)

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(1) Let

$$T = \{1, 3, \pi\}, \quad S = \{\{1\}, 3, 9, 10\}, \quad U = \{\{1, 3, \pi\}, 1\}.$$

Determine whether each of the following statements is true. For those that are not, why not?

- $1 \in S$
- $\{1\} \in S$
- $1 \subseteq U$
- $T \subseteq U$
- $T \in U$

(2) How many three-digit numbers less than 600 can be made using the digits 8, 6, 4, and 2?