

Math 1303 - Math in the Liberal Arts

Quiz #6 - 2014.09.17

Name: _____

Consider the following sets:

$$S = \{x \mid x \text{ is a positive power of } 4\}$$

$$T = \{0, 2, 4, 6\}$$

$$U = \{0, 2, 4, 6, \dots\}$$

$$V = \{x \mid x \text{ is a prime number}\}$$

$$W = \{x \mid x \text{ is an integer}\}$$

$$X = \{1, 3, 5, 7, \dots\}$$

1. Is $S \subseteq T$?
2. Is $S \subseteq U$?
3. Is $2 \in V$?
4. Is $U \subseteq W$?
5. Is $T = U$?
6. Is $V \subseteq X$?
7. Is $X \subseteq W$?