

Math 1303 - Math in the Liberal Arts

Quiz #7 - 2014.09.19

Name: _____

Consider the following sets:

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

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

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

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

$$W = \{1, 3, 5, 7\}$$

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

1. Express $U \cap V$ in set notation.
2. Express $S \cap T$ in set notation.
3. Express $T \cup W$ in set notation.
4. Express $T \cap W$ in set notation.
5. Express $U \cup X$ in set notation.
6. Express $S \cap X$ in set notation.