

Math 1303 - Math in the Liberal Arts

Quiz #5 - 2014.09.15

Name: _____

Consider the following sets:

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

$$T = \{0, 1, 2, 3, 4, 5, 6\}$$

$$B = \{\text{Jimbo, Billy, Bob, Sally Mae, Jessie, Dwayne, Hank}\}$$

$$C = \{\text{Billy, Bob, Jimbo, Sally Mae, Jessie, Hank, Dwayne}\}$$

1. Express the set S in roster notation.

2. What is $n(T)$?

3. Express the set T in set-builder notation.

4. Does $n(B) = n(C)$?

5. Does $B = C$?

6. Does $n(T) = n(B)$?

7. Does $T = B$?