

Math 2283 - Introduction to Logic

Quiz #14 - 2016.02.17

Name: _____

Consider the following sets:

$A = \{ x \mid x \text{ is a US state bordering the Atlantic Ocean.} \}$

$B = \{ x \mid x \text{ is a US state bordering the Pacific Ocean.} \}$

$C = \{ x \mid x \text{ is a US state which has a coast on the Gulf of Mexico.} \}$

$D = \{ x \mid x \text{ is a US state which shares a border with Canada.} \}$

$E = \{ \text{Texas, Oklahoma, Arkansas} \}$

$F = \{ x \mid x \text{ is a US state which shares no border with any other US state.} \}$

$G = \{ x \mid x \text{ is a US state whose has as part of its border the Red River of the South.} \}$

Relate the following sets using the relations: subset, superset, overlap, disjoint, and equal.

1. A B

2. A C

3. F B

4. E G

5. B F