

Math 5710

Monday, 7/14/20

Quiz 16

1. What is your name?

Brock Francom

2. Determine whether or not the following proposition is true; indicate your determination by circling either "T" or "F" and then prove your determination is correct:

$\forall \Omega, \exists A, B \in \{\text{events of } \Omega\} \ni A \text{ and } B \text{ are mutually exclusive}$

(T) F From the Glossary, A and B mutually exclusive $\Leftrightarrow P(A \cap B) = 0$

Since \emptyset is a subset of every set, we will pick \emptyset for A . $A \cap B = \emptyset \cap B = \emptyset$

$$P(A \cap B) = 0$$

3. Smile.