

# Math 2283 - Introduction to Logic

Quiz #3 - 2016.01.20

Name: \_\_\_\_\_

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1. How does one make a conditional sentence false?
  
  
  
  
  
  
  
  
  
  
2. Which interpretation of the disjunction is used as definition in logic?
  
  
  
  
  
  
  
  
  
  
3. Which logical connective is used to convey the equivalence of two statements/sentences?

4. Determine if the following quantified sentence is true or false:

$$\forall x, y \exists z (x = y + z)$$

5. Determine if the following quantified sentence is true or false:

$$\exists z \forall x, y (x = y + z)$$