

Math 2283 - Introduction to Logic

Quiz #12 - 2016.02.12

Name: _____

1. What quantity does the following quantified statement correspond to:

$$\exists x \forall y [P(x) \wedge \{P(y) \rightarrow (y = x)\}]$$

2. What quantity does the following quantified statement correspond to:

$$\forall x, y, z [\{P(x) \wedge P(y) \wedge P(z)\} \rightarrow \{(z = y) \vee (z = x)\}]$$

3. What is the difference between a sentential function and a designatory function?

4. State the Rule of Detachment.