Quiz 2 Results

Question 1 (1 / 1 pts)

Let F(x,y)F(x,y) be "x talked with y over the phone". Which of the following represents "Everybody talked with everybody over the phone"?

Selected Answer: ∀x∀yF(x,y)
Correct Answer: ∀x∀yF(x,y)

Question 2 (1 / 1 pts)

Which of the following best characterizes the following statements?

a. If -1 < 0, then 5 = 6.b. 4 + 1 = 3 if and only if 2 + 3 = 3.

Selected Answer: Only b is True
Correct Answer: Only b is True

Question 3 (1 / 1 pts)

Let Q(x)Q(x) denote the statement "x + 1 > 2x". The domain is the set of positive integers (positive integers do not include 0). Which of the following best characterizes the two statements?

a. ∃x Q(x)**b.** ∀x¬Q(x)

Selected Answer: Only b is True
Correct Answer: Only b is True

Question 4 (1 / 1 pts)

Rewrite $\neg(\exists x\exists y P(x,y) \land \forall x\exists y \neg Q(x,y))$ so that negations appear only within predicates (negation on P(x,y)P(x,y) and/or Q(x,y)Q(x,y), but not on anything else).

Selected Answer: ∀x∀y¬P(x,y)∨∃x∀yQ(x,y)

Correct Answer: ∀x∀y¬P(x,y)∨∃x∀yQ(x,y)

Total Score: 4 / 4 pts