Mark Demore II

CSCE523

Assignment #3

1. The Cheshire Cat uses inference in this argument, simplifying with transitivity and negation, but it is not entirely sound because the behavior is extrapolated from the dog. The Cheshire Cat essentially says “A dog is not mad AND a dog behaves this way. Because I behave the opposite way, I am mad”. Whereas a more direct result would be that the Cheshire Cat is simply not a dog.

Hummingbirds are small and live on honey, because they are richly colored.

1. a) {x/cat, y/dog, z/x}

b) {x/Hearts, y/Cheshire}

c) If Jack is the brother of Mary and Mary is the sister of Jack, they cannot be applied to Son or Daughter, and there are no other variables which can be used for x, y, z or f(x).