CSC 8-151 Discrete Mathematics for Computer Science Quiz 2 April 15, 2016

solution

name

1. (4 pts) a. First introduce two appropriate predicates, W(x) and J(x), then add quantifier(s) as **needed** to express the given statements. Assume the domain for W and J is all people.

a. Isla is a web developer.

b. Not everyone knows Javascript.

c. All web developers know Javascript.

2. (4 pts) Introduce predicates and use quantifiers to express the following statements in predicate logic:

Predicate and domain:
$$F(\chi, y)$$
: χ can fool γ .

a. Everybody can fool Todd.

b. Nobody can fool everybody.

c. There is someone whom Lois cannot fool.