ASSIGNMENT NO

Q. Consider the following paragraph:

“ anything anyone eats are called food. Milka likes all kind of food. Bread is a ? food. Mango is a food. Alka eats pizza. Alka eats everything milka eats.”

Translate the following sentences into (WFF) in predicate logic and then into set of clauses. Using resolution principle answer the following:

* 1. Does Milka like pizza?
  2. what food Alka eats[ Question answering]

Q. Consider the following axioms:

1. Every child loves Santa.
2. Everyone who loves Santa loves any reindeer.
3. Rudolph is a reindeer, and Rudolph has a red nose.
4. Anything which has a red nose is weird or is a clown.
5. No reindeer is a clown.
6. Scrooge does not love anything which is weird.
7. (Conclusion) Scrooge is not a child.

Represent these axioms in predicate calculus; skolemize as necessary and convert each formula to clause form. (Note: `has a red nose' can be a single predicate. Remember to negate the conclusion.) Prove the unsatisfiability of the set of clauses by resolution.