Problem 1: Classify the following arguments as deductive or inductive:

All spicy foods give me indigestion.
Chili dogs are spicy food.
Therefore, chili dogs give me indigestion.

I ate a chili dog at Joe’s and got indigestion.
I ate a chili dog at Ruby’s and got indigestion.
Therefore, chili dogs give me indigestion.

Problem 2: Determine the validity of the given argument by constructing a Venn Diagram:

All professional wrestlers are actors.
Ralph Nader is not a professional wrestler.
Therefore, Ralph Nader is not an actor.

No vegetarian owns a gun.
All policemen own guns.
Therefore, no policeman is a vegetarian.

Problem 3: Answer the following question using complete sentences: Why does validity not imply truth? In other words, why does saying than an argument is valid not necessarily imply that the conclusion is true?