Modeling statements with FOL sentences:

Example 1.

A1:  
    No patients like a liar.

A2:  
    Some patient likes all doctors.

Prove:

B:  No doctor is a liar

Example 2.

A1:  
    Custom staffs check every non-important person entering the country.

A2:  
    Some drug dealer enters the country and is checked only by drug dealers.

A3:  
    No drug dealer is an important person.

Prove:

B:  Some customs staff is a drug dealer
Example 3.

A1: Every person at LSU is a tiger fan.

A2: A tiger fan is a person that likes the (LSU) Tiger more than anything else.

A3: Some tiger fan has a friend who is a person that likes the (SU) Jaguar more than the (LSU) Tiger.

A4: If some person likes A more than B, then he/she can not like B more than A.

Prove:

B: Some person is not a tiger fan.

Example 4:

A1: Everyone who loves all animals is loved by someone.

A2: Anyone who kills an animal is loved by no one.

A3: Jack loves all animals.

A4: Either Jack or Curiosity kills the cat Tina.
A5:
  Cats are animals.

Prove:

B: Curiosity kills the cat Tina.