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 likes the LSU Tiger more than anything else.

A3:
Some tiger fan has a friend who likes the SU Jaguar more than LSU Tiger.

A4:
If someone 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.