Boone Tison

Homework 3.2-3.3

3.2 #2:

The negation of a universal statement is an existential with a negative. So, the correct answers are C, some dogs are disloyal and F, there is a dog that is disloyal.

3.3 #11 b:

Every student has seen Star Wars.

3.3 #11 e:

There are two distinct students and there is a movie, that both students have seen.

3.3 #11 f:

There are two distinct students, who have seen all movies.

3.3 #12 c:

∃x in D such that ∀y in E, xy < y

The given is true. When y = 0, there is no x that will made xy < y, only equal.

3.3 #12 d:

∀x in D, ∃y in E such that, x > y

The given is true. When x = 2, there is no y value greater than 2.