

# Ma 236 Fall 2016

## Homework 7

Due in class March 2, 2017

1. Test if the sentences

$$\forall x (Fx \rightarrow \exists y Gy)$$
$$\neg Ga$$

are consistent by using the tree method. Show that the tree goes on forever.

2. Find an interpretation with finite domain in which both sentences are true. Be sure to indicate the extensions of  $a$ ,  $F$  and  $G$ . Use formation trees to show that the sentences are true in your interpretation.