**Problem Set 4**

Due Tuesday, April 4, in class or my box by 5:00pm

1. Give basic first order logic translations (not Davidsonian) for the following sentences:
   1. Amanda likes all snakes.
   2. Everyone likes the sky. (I.e., every person likes the sky)
   3. All foods that are sweet are delicious.
   4. Some people who like snakes are crazy.
   5. Everyone who knows Genevieve loves Genevieve.
2. Give 2 basic first order logic translations for the following ambiguous sentence: *Everyone misses someone.*
3. Give a neo-Davidsonian FOL translation for the following sentence:
   1. Grace put the car in the garage at 5 p.m.
4. Give an example of a hypernym-hyponym relation for nouns and a troponym relation for verbs.
5. Use WordNet as a source for the different senses of the noun *pen*. Cluster these senses using the definitions of homonymy and polysemy in Chapter 19. If any of the senses are polysemous, give an explanation as to how the senses are related.