Math 506 Model Theory I
Problem Set 2

Due: Wednesday September 24

1) Let $T$ be an $L$-theory. Prove that following are equivalent.
   i) $T$ has a universal axiomatization (i.e., $T$ has can be axiomatized using only universal sentences).
   ii) If $N \models T$ and $M \subseteq N$, then $M \models T$.

Do the following problems from the text: 2.5.11, 2.5.15, 2.5.26, 3.4.3.