Math 506 Model Theory I
Problem Set 2

Due: Wednesday September 24

1) Let T be an $\mathcal{L}$-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 $\mathcal{N} \models T$ and $\mathcal{M} \subseteq \mathcal{N}$, then $\mathcal{M} \models T$.

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