Model theory

Exercise 2

- 1. Exercise 2.9
- 2. Prove Theorem 3.4.
- 3. Let $x=(x_1,...,x_n)$ be a sequence of variables, Σ be a set of formulas of the form $\psi(x)$ and $\phi(x)$ be a formula. Show that if $\Sigma \models \phi$, then there is a finite $\Sigma' \subseteq \Sigma$ such that $\Sigma' \models \phi$.
- 4. Exercise 3.8
- 5. Exercise 3.9