Homework 1

Due Monday, Feb 20.

1. Suppose that $D$ is a collection satisfying the criteria in Proposition 1.3.4. Show that if the graphs of functions $f$ and $g$ are in $D_{n+1}$, then the graph of $\langle f, g \rangle$ is also in $D_{n+2}$. (You may use any of the facts we proved in lecture.)

2. Exercise 1.4.11, all parts (page 30)

3. Exercise 2.5.2 (page 60)