

Due: Friday, October 26, 1:00 p.m.

Leave in Liz's LGRT 1623D mailbox

1. Do Exercises 1.4.3 (8)–(9).
2. Do Exercise 1.4.7 (7).
3. Do Exercises 1.4.8 (5).
4. Do Exercise 1.4.18 (3).
5. Prove Proposition 1.5.6. *Hint:* No form of induction is required here: it is strictly computational! Consider separately the case $j = 0$. For $j > 0$, start with the right-hand side of the equation; transform and combine its two terms so as to obtain the left-hand side.