Math 262a — Topics in Combinatorics — Fall 1999 — Glenn Tesler Homework 3 — October 22, 1999

Note that the proofs I gave in class came partly from A=B and partly from Koepf's book, and the notation got a bit mixed up.

In lecture

In Koepf's book

p(k),q(k),r(k),s(k),a(k)	p_k, q_k, r_k, s_k, a_k
$\alpha(k) = a(k+1)/a(k)$	written out every time; no name is given to it
y(k) = s(k)/a(k)	$R_k = s_k/a_k$
$y(k) = \frac{r(k)}{p(k)}x(k)$	$R_k = \frac{r_k}{p_k} f_{k-1}$
x(k)	f_{k-1}
q(k+1)x(k+1) - r(k)x(k) = p(k)	$q_{k+1}f_k - r_k f_{k-1} = p_k$

- 1. Easy problems: Koepf Chapter 5# 1, 2, 13
- 2. Problems to do by hand: Koepf Chapter 5# 10, 20, 21.
- 3. Problems requiring a computer or a lot of patience: Koepf Chapter 5# 8(a,d,i), 25, 26(a,c,d). (Most of 25 can be done by hand, though.)