

1: rev(rev[])	
2:   = rev[]	Unfold rev'0
3:   = []	Unfold rev'0
4: rev(rev[x3])	
5:   = rev[x3]	Unfold rev'1
6:   = [x3]	Unfold rev'1
7: rev(rev xs)=xs, rev(rev ys)=ys	assumptions
8: rev(rev(xs++ys))	
9:   = rev(rev ys++rev xs)	Unfold rev'2
10:   = rev(rev xs)++rev(rev ys)	Unfold rev'2
11:   = xs++rev(rev ys)	Unfold 7.1
12:   = xs++ys	Unfold 7.2
13: (rev•rev)x	
14:   = rev(rev x)	Unfold •
15:   = x	listinduction 1–3,4–6,7–12
16:   = id x	Fold id
17: rev•rev=id	ext 13–16