...

1: rev(rev[])=[]

...

2: rev(rev[x5])=[x5]

3:	rev(rev xs)=xs, rev(rev ys)=ys	assumptions
4:	rev(rev(xs++ys))	
5:	= rev(rev ys++rev xs)	Unfold
6:	= rev(rev xs)++rev(rev ys)	Unfold
7:	= rev(rev xs)++ys	Unfold
8:	= xs++ys	Unfold

9: rev(rev x)=x listinduction 1,2,3-8

10: rev(rev x)=id x Fold rewrite,id 9

11: (rev•rev)x=id x Fold rewrite,• 10

12: rev•rev=id ext 11