

## CoCoA-5 - Bug #1291

### LinearSimplify: sometimes not optimal

27 May 2019 21:17 - John Abbott

<b>Status:</b>	New	<b>Start date:</b>	27 May 2019
<b>Priority:</b>	Low	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	enhancing/improving	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoA-5.?.?	<b>Spent time:</b>	0.00 hour
<b>Description</b>			
Sometimes LinearSimplify could produce a simpler result:			
<pre>f := x^4+4*x^3+5*x^2+2*x+1; LinearSimplify(f); record[LinearChange := x, SimplePoly := x^4 +4*x^3 +5*x^2 +2*x +1]  subst(f, x, x-1); x^4 -x^2 +1</pre>			
Improve it (without making it measurably slower).			