CoCoALib - Bug #938

ReadExpr: misreads 2/3^4

06 Oct 2016 11:37 - John Abbott

Status:	Closed	Start date:	06 Oct 2016	
Priority:	Urgent	Due date:		
Assignee:	John Abbott	% Done:	100%	
Category:	Maths Bugs	Estimated time:	2.60 hours	
Target version:	CoCoALib-0.99550 spring 2017	Spent time:	2.50 hours	
Description				
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•	ReadExpr so that it can read rational numb	ers, the fn now misreads '	'2/3^4" and pro	duces 16/81 instead of 2/81
After my change to I		ers, the fn now misreads '	'2/3^4" and pro	duces 16/81 instead of 2/81
After my change to I Rectify! And add a t		ers, the fn now misreads '	'2/3^4" and pro	duces 16/81 instead of 2/81
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History

#1 - 06 Oct 2016 11:38 - John Abbott

It is a slightly subtle bug: at first sight it seems reasonable that <constant>^<integer> should yield the obvious power of the constant, but this is not how I read 2/3^4.

#2 - 07 Oct 2016 15:11 - John Abbott

- Related to Feature #909: ReadExpr: decimal point added

#3 - 07 Oct 2016 15:15 - John Abbott

- Status changed from New to In Progress
- Assignee set to John Abbott
- % Done changed from 0 to 10

I see no choice but to make 2/3⁴ read as an expression div(2, power(3,4)), and this implies that all rationals expressed as explicit quotients have to be read as an expression div(...,..).

#4 - 08 Oct 2016 21:55 - John Abbott

- Status changed from In Progress to Feedback
- % Done changed from 10 to 90

I have fixed it now, and added a new test-RingElem5 for the function ReadExpr (for rational numbers).

Trickier than expected; also not so easy coming up with the various test cases.

#5 - 08 Oct 2016 22:10 - John Abbott

- Related to Bug #936: ReadExpr: cannot handle exponent which is not integer literal added

#6 - 09 Nov 2016 10:46 - John Abbott

- Target version changed from CoCoALib-0.99560 to CoCoALib-0.99550 spring 2017

#7 - 18 Nov 2016 22:23 - John Abbott

- Status changed from Feedback to Closed
- % Done changed from 90 to 100
- Estimated time set to 2.60 h