CoCoALib - Bug #1690

resultant gives wrong answer if an arg has deg 0

31 Jul 2022 06:22 - John Abbott

Status:	Closed	Start date:	31 Jul 2022
Priority:	High	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	Maths Bugs	Estimated time:	0.55 hour
Target version:	CoCoALib-0.99850	Spent time:	0.50 hour
Description			
The following incorrectly returns 0			
f := x^3-2;			
resultant(f, 3*x/x, x);			

History

#1 - 02 Aug 2022 21:38 - John Abbott

- Status changed from New to Feedback

- Assignee set to John Abbott

- % Done changed from 0 to 80

The code did not properly handle the "edge case" when one of the input polys was a factor of the other. If the factor is not constant then the result is zero; but if the factor **is** constant then the result is non-zero!

Fixed. Added a test in test-exbugs.C [will check in soon... if I can remember how]

#2 - 18 Jan 2023 18:33 - John Abbott

- Status changed from Feedback to Closed

- % Done changed from 80 to 100

- Estimated time set to 0.55 h