

## CoCoALib - Bug #1690

### resultant gives wrong answer if an arg has deg 0

31 Jul 2022 06:22 - John Abbott

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

### 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