# CoCoALib - Bug #1773

## CyclotomicFactorIndexes: gave wrong answer

09 Dec 2023 13:45 - John Abbott

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|---|---|---|---|---|
| **Status:** | Closed | | **Start date:** | 09 Dec 2023 |
| **Priority:** | Normal | | **Due date:** | |
| **Assignee:** | John Abbott | | **% Done:** | 100% |
| **Category:** | Maths Bugs | | **Estimated time:** | 0.99 hour |
| **Target version:** | CoCoALib-0.99850 | | **Spent time:** | 0.95 hour |

**Description**

I got a wrong answer from CyclotomicFactorIndexes; it missed the index 6

```
/**/ g := cyclotomic(3,x) * cyclotomic(4,x) * cyclotomic(6,x);
/**/ CyclotomicFactorIndexes(g);
[3,  4]
```

**History**

**#1 - 09 Dec 2023 14:02 - John Abbott**

*- Status changed from New to Resolved*

*- % Done changed from 0 to 80*

I think I have fixed it now.  I'd better add a test.

**#2 - 22 Dec 2023 21:30 - John Abbott**

*- Status changed from Resolved to Closed*

*- % Done changed from 80 to 100*

*- Estimated time set to 0.99 h*

I have added an exbug test.
Closing.