CoCoA-5 - Feature #1043

New function: IsCoprime

10 Apr 2017 14:43 - Anna Maria Bigatti

Status:	Closed		**Start date:**	10 Apr 2017
Priority:	Normal		**Due date:**	
Assignee:	Anna Maria Bigatti		**% Done:**	100%
Category:	CoCoA-5 function: new		**Estimated time:**	1.00 hour
Target version:	CoCoA-5.2.0 spring 2017		**Spent time:**	1.10 hour
Description				
Add IsCoprime for power-products (as in CoCoALib)				

History

#1 - 10 Apr 2017 15:34 - John Abbott

Presumably the fn should actually be defined for pairs of RINGELEM from any TrueGCDDomain.

Maybe for polynomials there can be a special case if coeffs are in a field, and the polys comprise single terms.

Here are some possible calls which should probably work:

```
IsCoprime(2,3); --> arg type is INT here!
IsCoprime(x^2*y,z^3);
IsCoprime(x^2-1, x^3-1);
```

#2 - 10 Apr 2017 15:50 - Anna Maria Bigatti

- Status changed from New to Feedback

- % Done changed from 0 to 90

All done (for power-products).
This function (for power-products!) was already available in CoCoALib, so I just meant to bring it to CoCoA-5 to avoid pointless overhead of doing gcd(t1,t2) = 1.
(If you want you may make another issue for the most general case)

#3 - 28 Apr 2017 19:21 - Anna Maria Bigatti

- Status changed from Feedback to Closed

- % Done changed from 90 to 100