

Re: An interesting problem of algebra

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-05/msg00851.html>

- *From:* TLOlczyk <olczyk2002@xxxxxxxxxx>
 - *Date:* Thu, 05 May 2005 10:50:07 GMT
-

On Thu, 05 May 2005 06:10:41 EDT, tunnel <tunnel2001@xxxxxxxx> wrote:

>For A ,B is matrix.(AB)³=BA . proof that AB=BA
Huh.Isn't this obvious?

$$(AB)^3=(A^3)(B^3)= B^3 A^3 =BA$$

so

$$B^2 A^2 =1$$

but

$$(AB)^3=A^2B^2 AB =B^2 A^2 AB=AB$$

so

$$BA=(AB)^3=AB$$

The reply-to email address is olczyk2002@xxxxxxxxxx
This is an address I ignore.
To reply via email, remove 2002 and change yahoo to
interaccess,

**

Thaddeus L. Olczyk, PhD

There is a difference between
thinking you know something,
and *knowing* you know something.

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- *Follow-Ups:*
 - ◆ ***Re: An interesting problem of algebra***
◇ *From:* denis feldmann
 - ◆ ***Re: An interesting problem of algebra***
◇ *From:* Dirk Van de moortel
 - ◆ ***Re: An interesting problem of algebra***
◇ *From:* Robin Chapman
 - ◆ ***Re: An interesting problem of algebra***
◇ *From:* tunnel

Re: An interesting problem of algebra

- **References:**

- ◆ **[An interesting problem of algebra](#)**
 - ◇ From: tunnel

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