

Re: Request help

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-12/msg01163.html>

- *From:* jade1378 <blueblue@xxxxxxx>
 - *Date:* Mon, 05 Dec 2005 02:52:04 EST
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>
> jade1378 wrote:
>> For A an abelian group and n a positive integer
> define $A^n = \{a^n: a \in A\}$.
>> show (direct sum of A and B)/(direct sum of A and
> B)ⁿ is homeomorphic to the direct sum of A/Aⁿ and
> B/Bⁿ.
>
> There is the canonical map from A (+) B to A/Aⁿ (+)
> B/Bⁿ. What is
> the kernel of this map? Also, I think you mean
> isomorphic, not
> homeomorphic.
>
> Mike
>

I am sorry, it is isomorphic
If A is cyclic of order k, what is A/(Aⁿ)
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- *References:*
 - ◆ **[Re: Request help](#)**
 - ◇ *From:* mskirvin
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