

Re: really easy trig question

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-08/msg06209.html>

- *From:* "." <.@.com>
 - *Date:* Wed, 31 Aug 2005 20:20:01 +0800
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<matt271829-news@xxxxxxxxxxx> wrote in message
news:1125486982.505779.162180@xx

>
> . wrote:
>> Hi All,
>>
>> I used to know this, but my brain has got rusty with age.
>>
>> Why is it that $\sin(\pi/3) = (\sqrt{3})/2$?
>>
>> Thanks for your help
>>
>> Michael
>
> Draw an equilateral triangle, and drop a perpendicular from the apex to
> the base. Then a bit of Pythagoras and you should be done.
>

Sorry, I must have worded my question badly.

If I do as you have said for a unit equilateral triangle I get ~0.866 ,
which $\sim(\sqrt{3})/2$
But if I didn't know 0.866 $\sim(\sqrt{3})/2$, how would I come up with the idea of
trying $(\sqrt{3})/2$?

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- *Follow-Ups:*
 - ◆ **[Re: really easy trig question](#)**
 ◇ *From:* matt271829-news
 - ◆ **[Re: really easy trig question](#)**
 ◇ *From:* Phil Nicholson

- *References:*

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◇ From: .

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◇ From: matt271829-news

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