

Re: Simple, but a bit hard, Trigonometry problem.

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- *From:* Phil Carmody <thefatphil_demunged@xxxxxxxxxxxx>
 - *Date:* 24 May 2007 18:02:42 +0300
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gtsavdar@xxxxxxxx writes:

/ Phil Carmody :

quasi <quasi@xxxxxxxx> writes:

Conjecture 1:

Let r,s,t be integers such that $\gcd(rs,t)=1$, and let $a=\sin(r)$,
 $b=\sin(s)$, $c=\sin(t)$. Then c cannot be expressed as a
polynomial in
 a,b .

What if t is 0?

Then the $\gcd(rs,t)=1$ would be false, so the statement "Let r,s,t be
integers such that $\gcd(rs,t)=1$ " would be false too, so the implication
would be true.

Now it remains to show this for t not 0....

$k*180$ degrees for integer k then.

And if you want to be pedantic, try $t=0$ $r=s=1$.

Phil

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"Home taping is killing big business profits. We left this side blank
so you can help." — Dead Kennedys, written upon the B-side of tapes of
/In God We Trust, Inc./.

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