

with Q.

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 - *Date:* Wed, 18 Jan 2006 21:11:31 +0900
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hello.....doctor~

there does not exist "x" in rational number
such that $x^2 = 12$.

if there exists "x" in Q,
 $x = n/m$, $(n,m)=1$. n,m in Z.

so, $(n/m)^2 = 12$

$\Rightarrow n^2 = 12.m^2$

so, n^2 is even $\Rightarrow n$ is even.

so, $n=2k$ form.

since $n^2 = 12.m^2$, $(2k)^2 = 12.m^2$.

$\Rightarrow 4k^2 = 12.m^2$

$\Rightarrow k^2 = 3.m^2$

i want to deduce that m is even and $(m,n) \neq 1$.
in the end, "x" does not exist by contradiction.

but i can't induce the my idea.

is this impossible work ?

i want to know a correct solution in this case.

thank you very much for your advice.

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with Q.

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 - ◆ *Re: with Q.*
 - ◇ *From:* Nobody
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