Hi, I'm Greg. I'm a NYC tutor! I love helping students. I tutor many subjects, assist
with homework help, etc. I mainly specialize in specialized tests.

As it turns out, I haven't been able to get to do as many livestreams as I have in past
years (yet, hopefully that changes). Therefore, I thought it would be fun to start a
Problem Of The Day Series. I will put up a problem and leave it running for a while. You
guys will then analyze it, and come up with possible solutions and alternative solutions
on your own. I'll eventually post the answer in some manner.

For now we'll play it by ear how that will happen and for how long I'll leave up a
problem. But right now I'm thinking of keeping the problem up maybe 2 hours minimum and
maybe even in some cases 4 or 5 hours depending upon the dynamics and my situation.
Unlike my AMA (Ask Me Anything) lifestream sessions, I will not be checking in every few
minutes although I may from time to time join into the discussion. Again, the idea is for
you guys to discuss out the problem.

Please be respectful to each other in this endeavor and let's make this fun, educational
and forward-thinking. Keep the comments within the spirit of what I'm doing here. Please
email me at GregsTutoringNYC@gmail.com if needed.

HERE'S THE PROBLEM: <———
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A number, n, is increased by 1. If the cube root of that result equals $-\sqrt{0.16}$, what is
the value of n?

HERE'S THE SOLUTION:
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Note: \| represents square root, same as \2| does, .: \3| represents cube root

$\sqrt{0.16}$ is 0.4 However there is a negative sign so we're looking at -0.4

We need to do the reverse operations here. The reverse of the cube root is cubing and the
reverse of increasing by 1 is decreasing by 1.

.: We get: $r^3 - 1$
.: $(-0.4)^3 - 1 = -0.064 - 1 = -1.064$

Checking:
if n is -1.064 .: $n + 1 = -0.064$
$\sqrt[3]{-0.064} = -0.4$
$0.4^2 = 0.16$.: square rooting both sides $.4 = \sqrt{0.16}$.: $-.4 = -\sqrt{.16}$

There will be a tendency to solve this one in your head. But it's easy to mess up the
square and cube root and to mess up the squaring and cubing and to mess up the decimal
place and to mess up adding or subtracting 1. Attention to detail and numeracy is
important when problem solving.

— Greg / GregsTutoringNYC@gmail.com   LLAP ☺