



## Online Math Tutoring

**Improve your students' success in math by providing tutoring when they need it—even if it's midnight.**

With SMARTHINKING's online tutoring services, students have 24/7 access to experienced math e-structors™, 85% of whom have a master's degree or Ph.D. in math. Our e-structors engage students

in the learning process by using a virtual whiteboard equipped with a variety of math tools. Students are taught the underlying math concepts, helping them tackle future assignments on their own.

### SMARTHINKING GETS RESULTS

Broward Community College found that students who used SMARTHINKING had significantly higher pass rates than nonusers. SMARTHINKING students in math classes ranging from elementary algebra to pre-calculus exceeded the non-user pass rates by 16 to 22%.\*

\*Does Tutoring Help? A Comparison of SMARTHINKING-Tutored and Non-Tutored Students' Grades College-Wide 2005, Broward Community College, August 24, 2005.



*Offering BCC students SMARTHINKING's live, on-demand online tutoring – so students get help at the very moment they need it – has improved BCC student pass rates...Higher pass rates lead to higher student retention rates, which lead to greater revenues.”*

*Dr. Larry Calderon  
President  
Broward Community College*

### Give Your Students the Support They Need with SMARTHINKING's Online Math Tutoring

**On-Demand Assistance.** Our e-structors provide one-on-one math tutoring when students need it, 24 hours a day, 7 days a week. Their extensive teaching experience with students of diverse abilities and learning styles enables them to focus on the needs of each student.

**Active Learning.** E-structors assist students in learning the underlying concepts involved in their math problems; they do not solve the problems for students. Using an online whiteboard for live, real-time collaboration, e-structors engage students in the learning process.

**Convenient and Easy Access.** Our math e-structors are available online 24 hours a day, 7 days a week. (Hours may vary seasonally.)

**Increased Faculty Support.** With SMARTHINKING providing around-the-clock math tutoring, faculty can spend valuable class time focusing on new topics. Faculty can also review individual tutoring sessions and monitor student progress.

**Experienced Tutors.** Our tutors — we call them e-structors — have substantial teaching experience, and over 85% hold a master's degree or Ph.D. in math. SMARTHINKING's e-structor selection process is rigorous. After passing a thorough competency and personal screening, e-structors receive ongoing oversight, including pedagogical and technical training.

### Math Tutoring is Available for All Students

- Basic Math
- Algebra
- Geometry
- Trigonometry
- Pre-Calculus
- Single-Variable Calculus

## Here's an example of a live, drop-in tutorial session in math.

Using SMARTHINKING's proprietary virtual whiteboard, our e-structor helps a student solve an algebra problem. Note how the e-structor guides the student through the process of solving the equation.

SMARTHINKING's e-structors, using a problem-solving based teaching style, help students learn underlying math concepts. Our e-structors do not solve the problem for students. In this way, students learn to handle future assignments on their own.

http://www.smarthinking.com - Tutoring Platform from SMARTHINKING - Microsoft Internet Explorer

Hi Brian, I'm Kate. Can you tell me what the instructions are for this problem?

Hello, it says solve. Good. Have you learned any rules for solving this kind of equation?

Yes laws of logarithms. And which law might you be able to try here?

I was thinking  $\log_b m/n = \log_b m - \log_b n$

That looks perfect to me. Can you show me what you get on the left side of the equation when you use that rule?

the problem i have is putting the info in the equation

OK, let's look at it in an easier example first. If we had the following, could you apply the subtraction/division rule to it?  $\log_3 x - \log_3 y = 1$   $\log_3 x/y$  is that it?

Yes, exactly. Now look again at your original problem, and see if you can apply the same rule to it

$\log_3 \frac{(x+1)}{(x-1)} = 1$  good start -- hit enter to get to the denominator of the fraction.

Well done, Brian! That's exactly right. Now do you have an idea about what to do next?

i think figure out x?

Yes, but the x's are still inside the log function -- do you know how to get them out? no

Again, let's think about what we would do with  $\log_3 x = 1$  re-write this in exponential form,  $3^1 = x$  Does that make sense, Brian?

so are we going to have  $3^1 = \frac{(x+1)}{(x-1)}$  Good.

$3(x-1) = x+1$

$x=2$  Nice work, Brian.

thank you

I've enjoyed working with you

Math Character: (0) Greek Character: (0) Language Character: (0) Demotic Character: (0)

Submit Question Exit / Options

Done



What I like best about SMARTHINKING is that my students can get help anytime... Students who spend time working with SMARTHINKING do better on my tests than those who do not."

Jack Hughes  
Instructor  
St. Petersburg College

SMARTHINKING offers the following subjects for online tutoring...

**Math • Bilingual Math (English/Spanish) • Statistics • Finance  
Spanish • Accounting • Economics • Chemistry  
Organic Chemistry • Biology • Physics  
Anatomy & Physiology**

As well as **The Online Writing Lab**

► Hours of availability vary. Go to [www.smarthinking.com](http://www.smarthinking.com) for more information and schedules.