

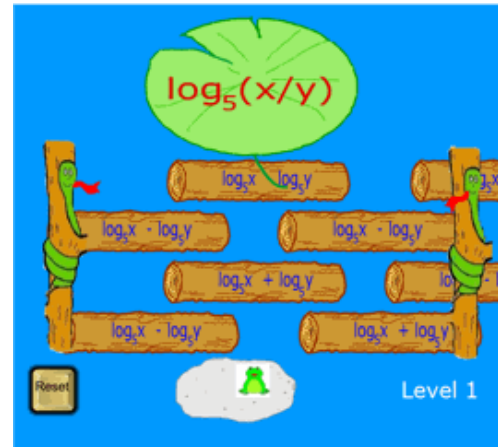
I Know it's Out There Somewhere: Free Online Math Resources

Larry Green

Lake Tahoe Community College

Types of Online Resources

- E-Texts
- Videos
- Applications That Do Math
- Tutorials
- Games
- Web 2.0
- Meta Resources



E-Texts (OER)

- Pros
 - Free
 - Increases Access
- Cons
 - No Publisher Support
 - Not as Well Edited
 - Not a Whole Package



Open Educational Resources (OER)

Videos

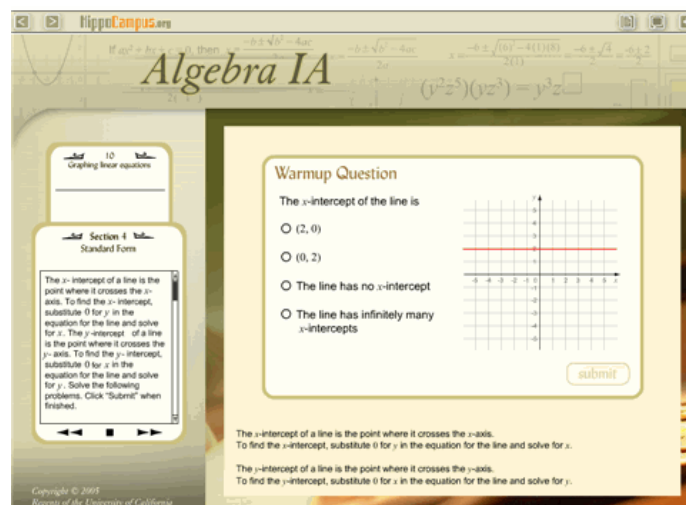
- A “Second Lecture” with Playback Controls
- Any time Lesson
- Great for Review

[Hippocampus](#)

[Algebra2Go](#)

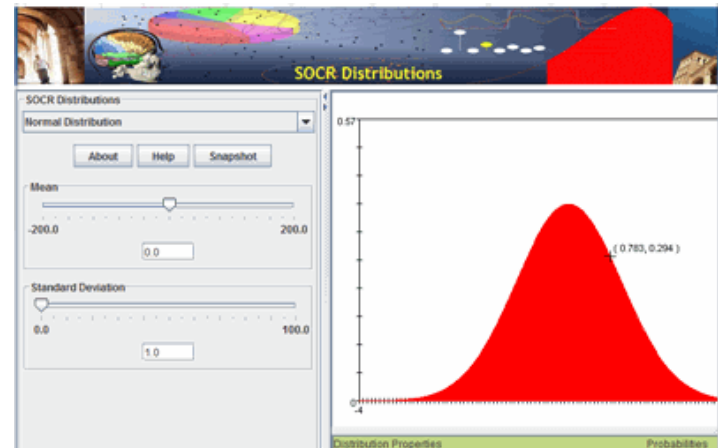
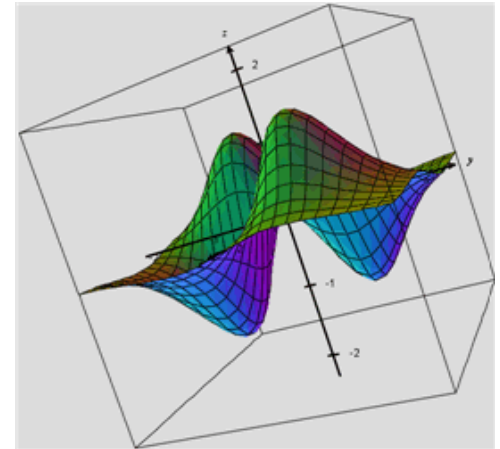
[Larry Green’s Calculus Videos](#)

[YouTube](#)



Applications That Do Math

- GeoGebra
- Wolfram Alpha
- Exploring Multivariate Calculus
- Statistics Online Computational Resource (SOCR)
- Riemann Sums



Tutorials

- Provide Feedback on Mistakes
- Gives Students Extra Practice
- Active Not Passive
- Tend to be Drill Problems and Not Critical Thinking

Larry Green's Java Applets

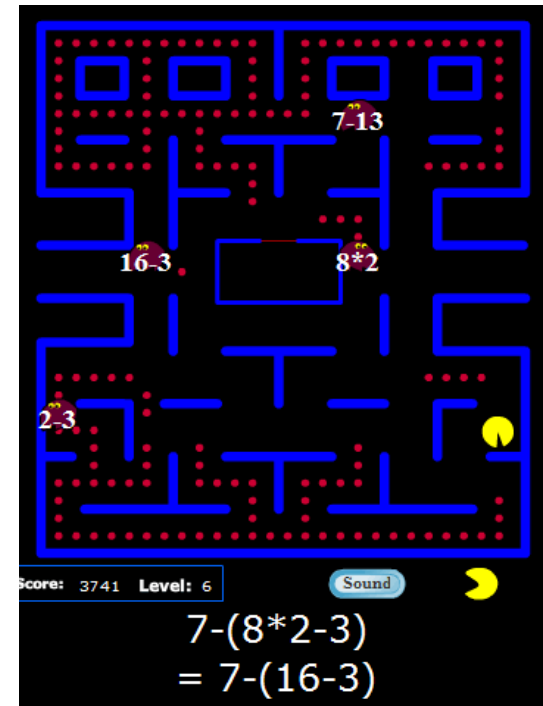
The screenshot displays a Java applet interface for a parabola. On the left, a light green panel contains the text "Standard Form" above the equation $y = \text{[]} (x - 1)^2 + \text{[]}$. To the right is a coordinate plane with a blue parabola opening downwards, its vertex at (1, -1). Below the graph are two buttons: "Hint" (orange) and "New Parabola" (purple). A "Message" dialog box is overlaid on the interface, featuring an information icon and the text "I think you are off by a sign." with an "OK" button.

Games

- Active Learning
- More Memorable
- Alternative Learning Style
- Double Frustration: Math and Losing the Game

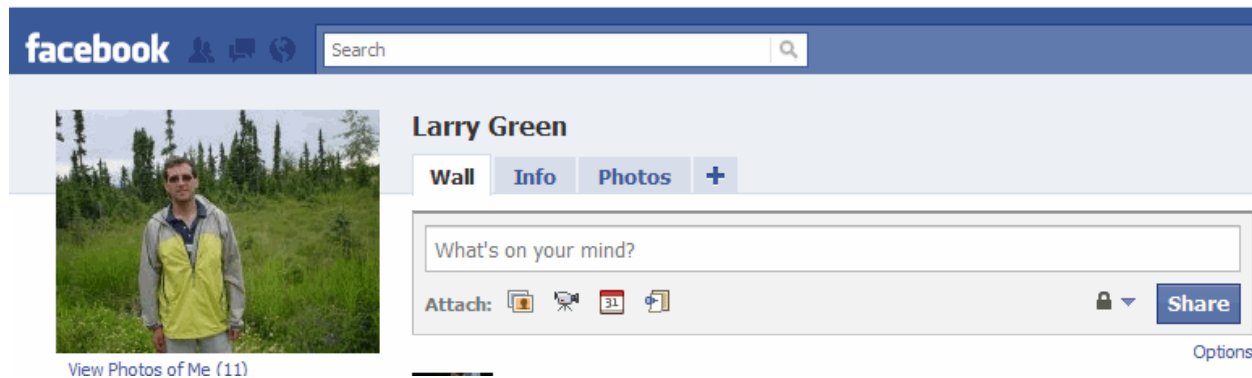
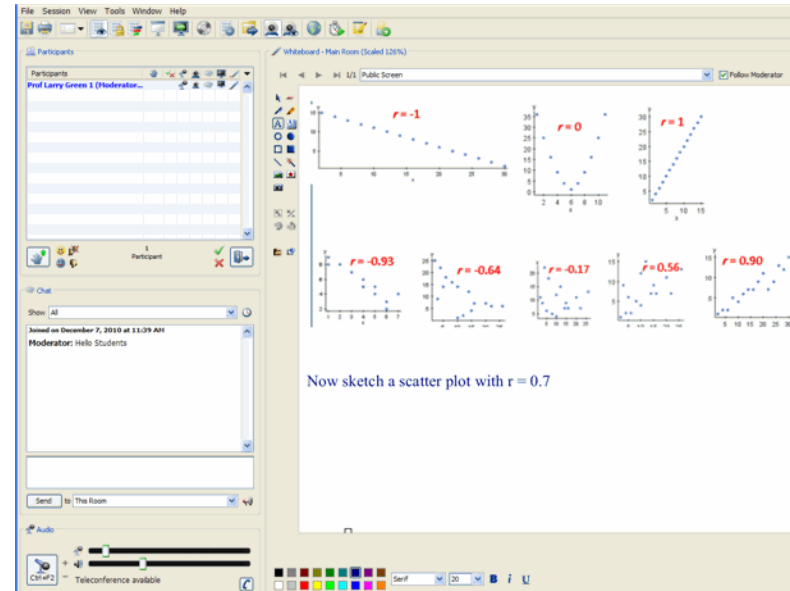
Larry Green's Math Games

Millionaire Calculus Game



Web 2.0

- Facebook
- CCC Confer
- Google Wave
- Twitter



Meta Resources

- MERLOT
- Google, etc
- Wikipedia

Rational function

From Wikipedia, the free encyclopedia
(Redirected from Rational expression)

In mathematics, a **rational function** is any function which can be written as the ratio of two polynomial function

Contents [hide]

- 1 Definitions
- 2 Examples
- 3 Taylor series
- 4 Complex analysis
- 5 Abstract algebra
- 6 Applications
- 7 References
- 8 See also
- 9 External links

Definitions

In the case of one variable, x , a function is called a rational function if and only if it can be written in the form

$$f(x) = \frac{P(x)}{Q(x)}$$

where $P(x)$ and $Q(x)$ are polynomial functions of x .

Examples



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Items 1-9 shown of 9 results

Confidence Interval for a Proportion Author: Larry Green This Java applet tutorial provides a series of word problems on determining confidence intervals. Each... Type: Tutorial Date Added: Jun 09, 2003 Date Modified: Dec 10, 2009	Peer Review (1)★★★★★ Comments (3)avg:★★★★ Personal Collections (10) Learning Exercises (none)
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