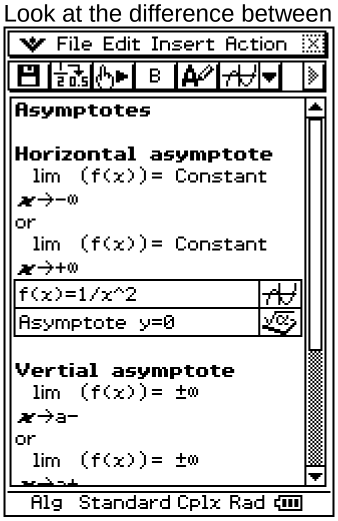
Function and Graph

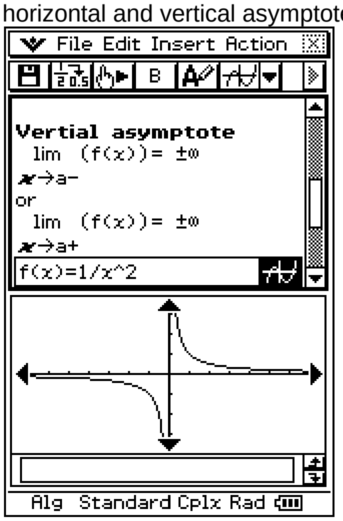
Learn how functions will look when stretched, mirrored, mixed, and balanced. Study and then design your own transformations

This file includes eActivities on:
Asymptotes - What is the difference between vertical and horizontal asymptotes?
Composition f(g) - Functions of functions
Inverse Composition - Can you discover the inverse of compositions?
Inverse Function - What about inverse of functions?
Reflection - Is the mirror on the x-axis or y-axis?
Stretch Perform - A few warm ups on your function.
Symmetry - Observe symmetry with respect to the y-axis, origin, or x-axis
Translation (Shift) - Functions on the move.

Asymptotes

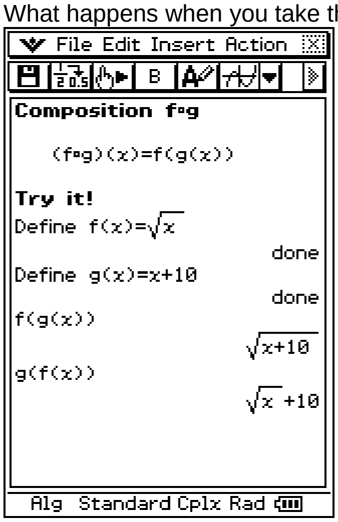
Look at the difference between horizontal and vertical asymptotes.





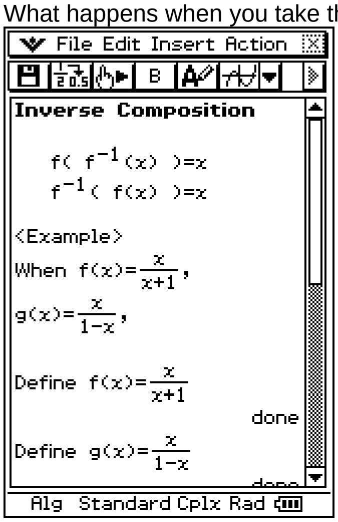
Composition f(g)

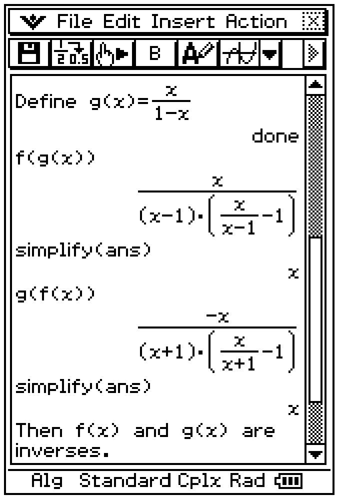
What happens when you take the function of a function? Are they interchangeable?



Inverse Composition

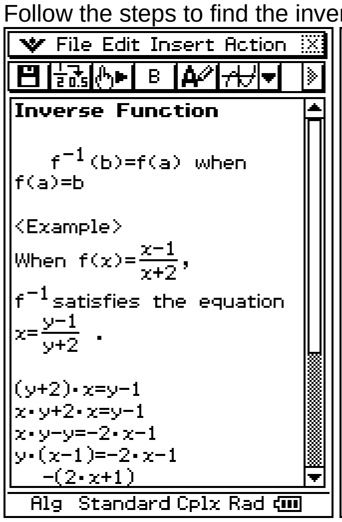
What happens when you take the inverse of a function within a function? Or, vice versa?

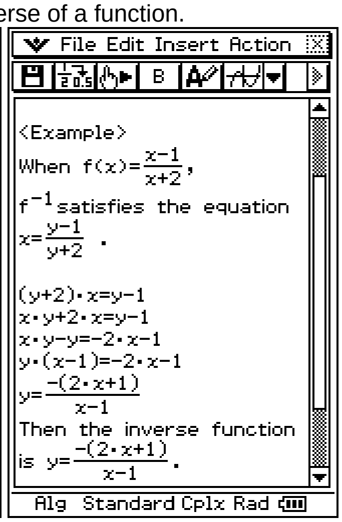




Inverse Function

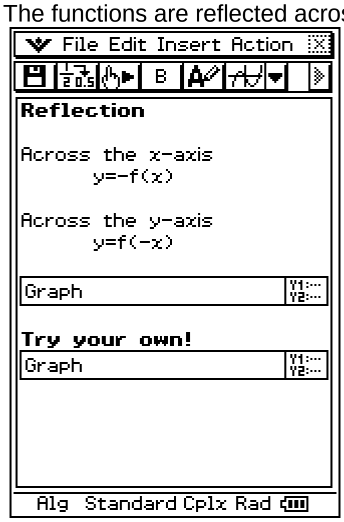
Follow the steps to find the inverse of a function.

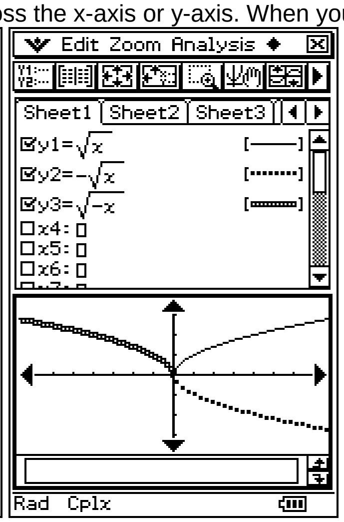




Reflection

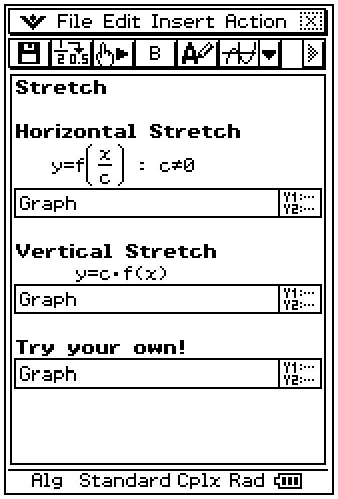
The functions are reflected across the x-axis or y-axis. When you understand how, you can create your own reflections.

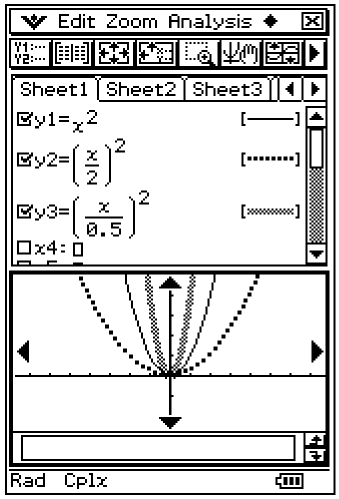




Stretch

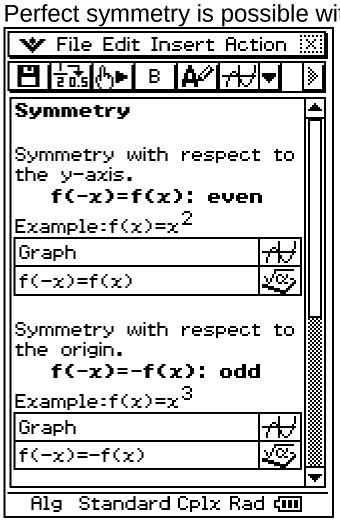
See how much the function stretches and in what direction.

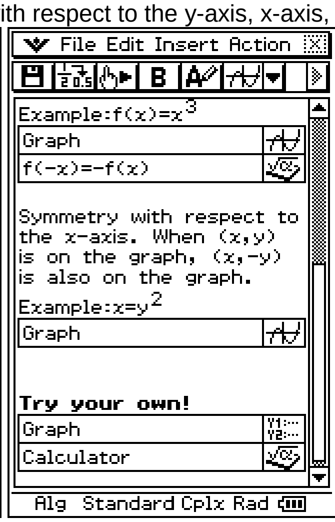




Symmetry

Perfect symmetry is possible with respect to the y-axis, x-axis, or origin. Recognize the formula and create your own.





Translation (Shift)

Learn how to move functions horizontally and/or vertically.