

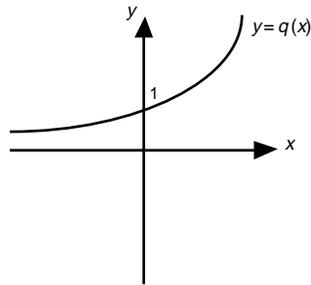


In Class Exercises (ICE) - 12/4/00

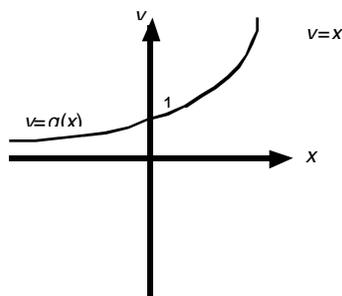
1. Draw the graph of the **function**.
2. Draw in the line $y = x$ on the graph of the function.
3. Using the line $y = x$ as a mirror, reflect the graph of the function.
4. The graph obtained from reflecting is the graph of the inverse.

Example Draw the graph of the inverse of the function : $q(x) = 3^x$

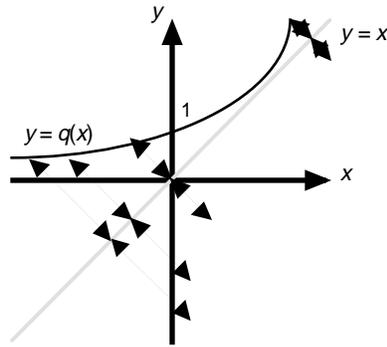
Solution Step 1 : The graph of the function resembles :



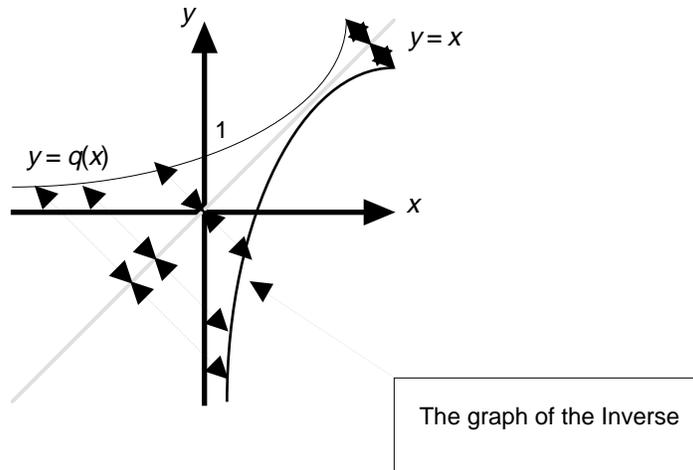
Step 2 : Adding the line $y = x$:



Step 3 : Generate some points for the new graph by reflecting across the line $y = x$:



Now draw in a curve that passes through these points :



- Use the axes provided below to sketch the graph of $f(x) = 10^x$ and the graph of the inverse.

