

# Math 1513 - College Algebra

Quiz #19 - 2018.11.05

Solutions

A function  $F(x)$  with domain  $(-4, 4)$  and range  $(-\infty, \infty)$  is given in the graph below. On the same graph, sketch the inverse function  $F^{-1}(x)$  to  $F(x)$ . Be sure to include any possible asymptotes.

So the domain and range get switched, and the vertical asymptotes become horizontal asymptotes. Also, reflecting the graph about the line  $y = x$  gives us:

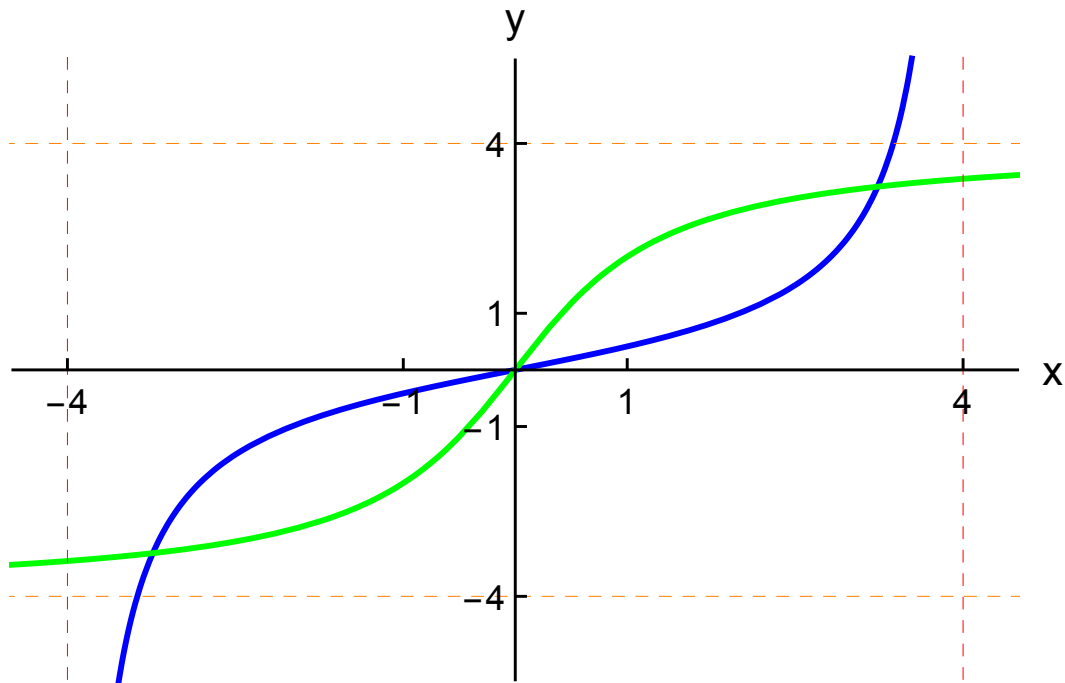


FIGURE 1. Graph of an the invertible function  $F(x)$  along with its inverse  $F^{-1}(x)$ .