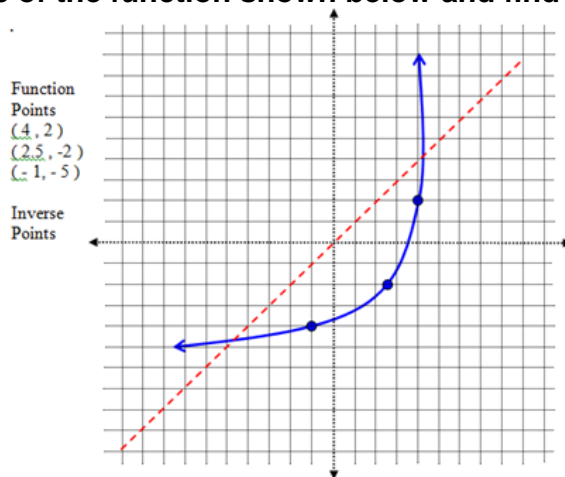


1-7 Homework

Introduction to Inverse Functions

1) Graph the inverse of the function shown below and find the inverse points.

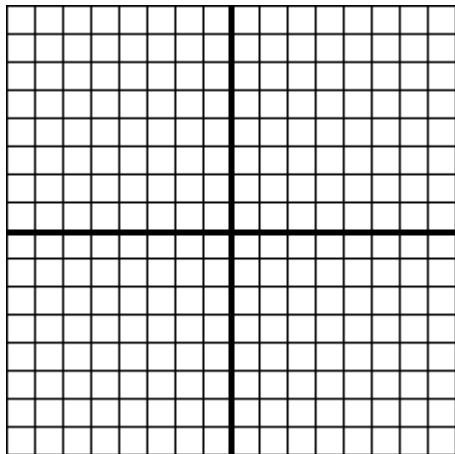


2) Find the algebraic inverse for each of the following:

a) $f(x) = 15x - 1$	
b) $y = \sqrt{x-3} + 2$	
c) $f(x) = (x-2)^2$	
d) $f(x) = \sqrt{x-4}$	
e) $f(x) = \frac{7x+5}{4}$	

3) Sketch the graphs of the following functions. Apply the Horizontal Line Test to determine if the function has an inverse function. Determine the inverse and graph it.

A. $f(x) = \frac{1}{2}x - 5$

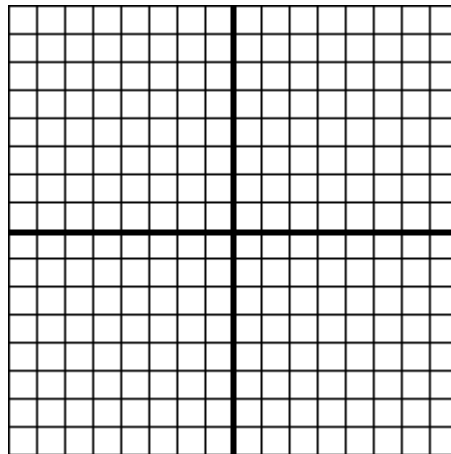


Horizontal Line Test:

Is the inverse of $f(x)$ a function? _____

$f^{-1}(x) =$ _____

B. $f(x) = 4x^2 - 1$



Horizontal Line Test:

Is the inverse of $f(x)$ a function? _____

$f^{-1}(x) =$ _____