INVERSE FUNCTIONS

WARM UP: **State the domain and range for** $y = -\sqrt{x+2} - 4$

   Domain =   Range =

Inverse Functions
1.Consider the following sets.

   E = $\{(0,1),(1,2),(2,3),(3,4)\}$ F = $\{(1,0),(2,1),(3,2),(4,3)\}$

   E and F are considered to be _____.

An inverse function is said to "reverse" the processes of another function. For a function f(x), the value of x would be input, and the value of y would result. For the inverse of f(x), the value of y would be input, and the value of x would result.

The inverse of a function has a set of ordered pairs that are obtained by interchanging the coordinates of ordered pairs of the function.
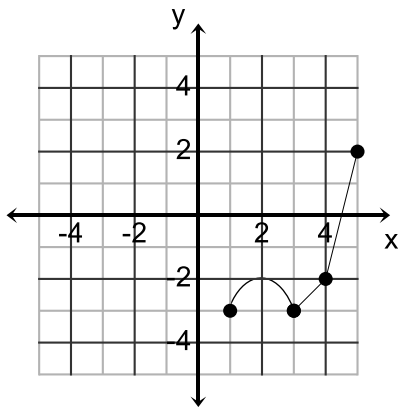
Notation
The inverse of y = g(x) is written as _____.
Note this is not an exponent.
It is only used if _____.
The inverse of (7,-8) is _____.
 The inverse of f(3)=9 is _____.

2. Method for finding the equation of an inverse.

a. $f(x) = 2x + 1$ b. $p(x) = \sqrt{x} + 3$

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…Continued on Unit3 Day 6