Sec 1.5 Inverse Functions

Learning Goal: We will review the concept of an Inverse Function, its equation creation, and its graph creation.

1/ Reflection in line y=x

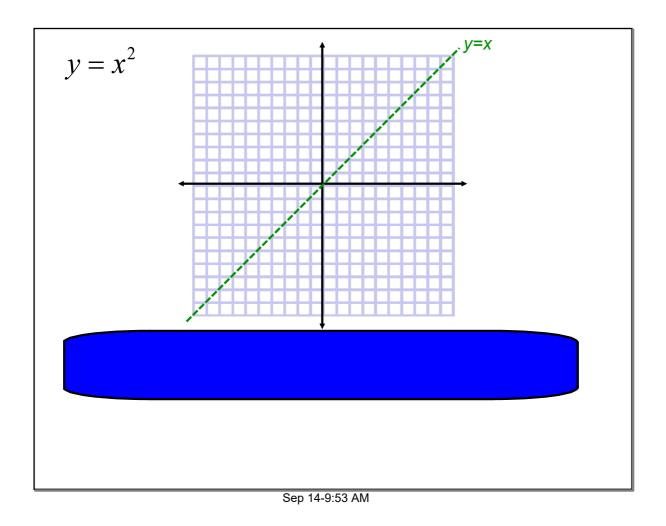
Notation:

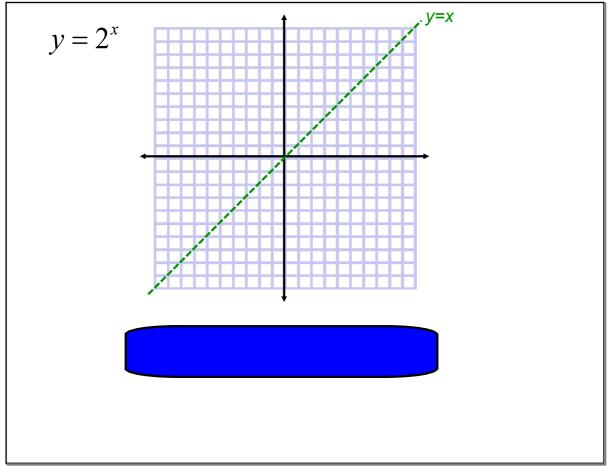
$$y = f(x)$$

inverse is $f^{-1}(x)$

2/ Switch x and y
$$y = kx \rightarrow x = ky$$

Sep 14-9:27 AM





Sep 14-9:57 AM

<u>Inverse</u>

- \Rightarrow switch x and y
- ⇒switch domain and range
- \Rightarrow switch x and y in end behaviours

What about the inverse of $y = \frac{1}{x}$

Rational function parent

What about the inverse of transformed rational?

$$y = \frac{2}{x+1} - 3$$

Rational function inverse

Sep 14-1:32 PM

p43 #1ace, 2a, 3, 6abd, 10

Rational function parent.gsp

Rational function inverse.gsp