Precalculus

1-09 Inverse Functions

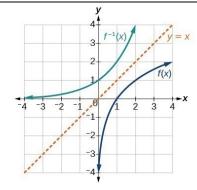
Inverse functions

- Switch _____
- Switch _____and ____

Verify that f(x) = 7x - 4 and $g(x) = \frac{x+4}{7}$ are inverses

Graphs of inverses

Reflected over line ______



One-to-one

- A function is one-to-one if each *y* corresponds to _____one *x*.
- Passes the _____line test
- Inverse of a 1-to-1 is a _____

Finding inverses

- 1. ______*f*(*x*) with *y*
- 2. _____*x* and *y*
- 3. _____for *y*
- 4. If you did step 1, _____y with $f^{-1}(x)$

Find the inverse of $f(x) = \sqrt[3]{10 + x}$

Find the inverse of $f(x) = x^2 - 2$, x < 0