

Inverse Functions

Suppose f is a function. The inverse function, written f^{-1} , is obtained by interchanging the x 's and y 's of each ordered pair. *So the range (y) of f becomes the domain (x) of f^{-1} , and vice versa.

Ex. Let $f = \{(1, -2), (2, 3), (3, -1), (4, -2), (5, -3)\}$. Then $f^{-1} = \{(-2, 1), (3, 2), (-1, 3), (-2, 4), (-3, 5)\}$.

*The reverse of a function may NOT be a function! If it is not a function, then it is just a relation.

If you are not given a few points but the equation of the entire line...

$$f(x) = 2x + 1$$

$$y = 2x + 1$$

$$x = 2y + 1$$

$$-1 = -2$$

$$x - 1 = 2y$$

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

$$\frac{x-1}{2} = \frac{2}{2} \cdot y$$

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

$$f^{-1} = \frac{1}{2}x - \frac{1}{2}$$

1. switch $f(x)$ to y

2. interchange x & y

3. solve for y !

4. switch y to f^{-1}

The graph of a function and its inverse are reflected over the line $y = x$.

It is a diagonal line through the origin with slope 1.

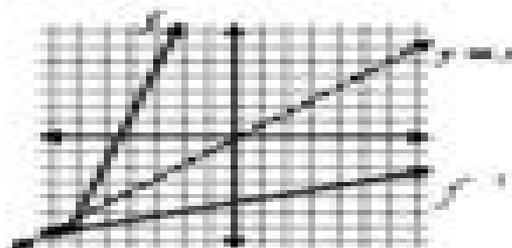
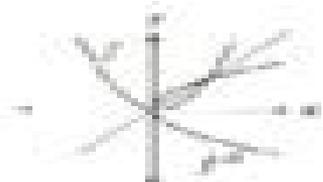
This line acts as a mirror.

Sketch the inverse of the function shown.

1) Draw the diagonal $y = x$.

2) Plot some points equidistant from $y = x$.

3) Connect the points.



Translation of Exponential and Logarithmic Notation



$$a^x = a^x$$

→

$$\log_a a^x = x$$

$$2^5 = 32$$

→

$$\log_2 32 = 5$$

(solving a logarithmic equation)

$$\log_4 64 = x$$

rewrite in exponential notation

$$4^x = 64$$

what power of 4 is 64? (use trial and error)

$$x = 3$$

Logarithmic Function Properties

$$\log_a A^p \cdot A^q = \log_a A^p + \log_a A^q = \log_a A^r$$

$$\log_a \frac{A^p}{A^q} = \log_a A^p - \log_a A^q$$

$$\log_a A^p = p \log_a A$$

Exponential And Logarithmic Functions Study Guide Key

JA Banks



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