

Today's Learning Goal(s):

By the end of the class, I will be able to:

- a) determine the equation of the inverse of a quadratic function.

3.3 The Inverse of a Quadratic Function

Date: _____

Recall: The inverse of a function undoes a function.

To find the equation, switch the x and y variables and rearrange for y .

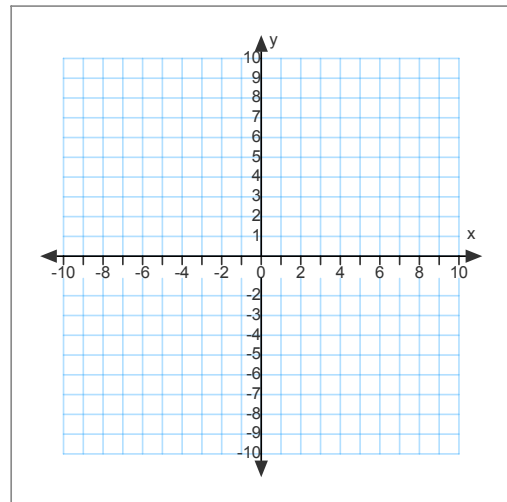
For a function with coordinates (x, y) , the inverse will have coordinates (y, x) .

Ex. 1:

- a) Graph $f(x) = 2(x - 2)^2 - 4$ and its inverse.

- b) Is the inverse a function?

- c) Determine the equation of the inverse.



- d) Determine the Domain and Range of $f(x)$ and the inverse.