

# Algebra II

G-5

## Inverses

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### Definition of Inverse

Inverse -

a) Blue Collar Definition -

b) Graphing Definition -

c) Actual Definition -

Graph:  $y = -x^2 + 4$

(0, 4)

(1, 3) (-1, 3)

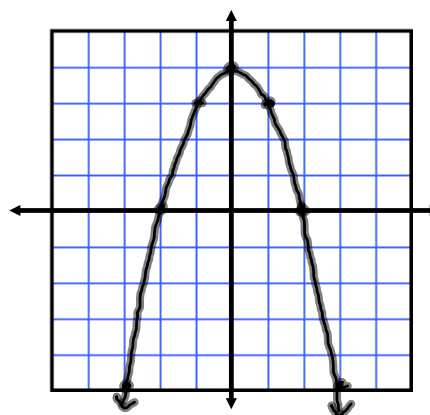
(2, 0) (-2, 0)

(3, -5) (-3, -5)

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Is this relation a function? \_\_\_\_\_



Draw the inverse on the same Cartesian Coordinate System.

Is the inverse a function? \_\_\_\_\_

What is the domain of the inverse? \_\_\_\_\_

What is the range of the inverse? \_\_\_\_\_

Assignment:  
Handout G-5

For each graph:

- State whether the graph is a function or not,
- Label the Domain and the Range of each relation,
- Draw the inverse on the same axes as the original,
- State whether the inverse is a function or not,
- Label the Domain and the Range of the inverse.