# ALGEBRA ONE NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# F(x) INVERSES PRACTICE A

## Problem 1

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| step 1: Fill in the table.f(x) = $\sqrt[3]{x-1}$

|  |  |
| --- | --- |
| x | y |
| -26-70129 |  |

 | step 2: Graph the function. | step 3:Invert (switch) the x and y from step 1.

|  |  |
| --- | --- |
| x | y |
|  |  |

step 4:Graph the inverse. | step 5:Write the equation of the inverse.f(x) =  |

Problem 2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| step 1: Fill in the table.f(x) = x2 - 4

|  |  |
| --- | --- |
| x | y |
| 01234 |  |

 | step 2: Graph the function. | step 3:Invert the x and y from step 1.

|  |  |
| --- | --- |
| x | y |
|  |  |

step 4:Graph the inverse. | step 5:Write the equation of the inverse.f(x) =  |

\*What did we do to the domain in problem 2?

## Problem 3

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| step 1: Fill in the table.f(x) = (x + 1)3

|  |  |
| --- | --- |
| x | y |
|  |  |

|  |  |
| --- | --- |
| x | y |
| -3-2-1012 |  |

 | step 2: Graph the function. | step 3:Invert the x and y from step 1.step 4:Graph the inverse. | step 5:Write the equation of the inverse.f(x) =  |

Problem 4

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| step 1: Fill in the table.f(x) =

|  |  |
| --- | --- |
| x | y |
| 0149 |  |

 | step 2: Graph the function. | step 3:Invert (switch) the x and y from step 1.

|  |  |
| --- | --- |
| x | y |
|  |  |

step 4:Graph the inverse. | step 5:Write the equation of the inverse.f(x) =  |