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

# F(x) INVERSES PRACTICE A

## Problem 1

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| step 1:  Fill in the table.  f(x) =   |  |  | | --- | --- | | x | y | | -26  -7  0  1  2  9 |  | | 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 | | 0  1  2  3  4 |  | | 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  -1  0  1  2 |  | | 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 | | 0  1  4  9 |  | | 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) = |