

Inverse Functions Worksheet

Name: _____

Period: _____

Please do all your work on a separate piece of paper. Make sure to show all work!

The given coordinates are on $f(x)$, find the coordinates for $f^{-1}(x)$.

1. $(-2, 4)$

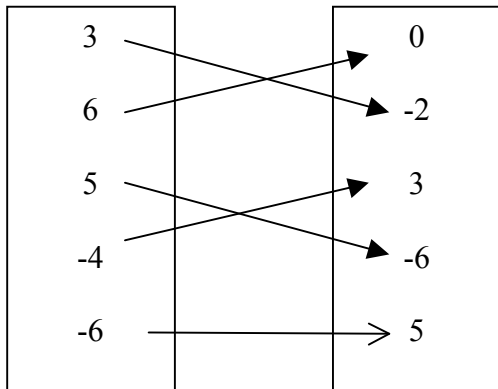
2. $(4, 7)$

3. $(0, 11)$

4. $(-3, -8)$

5. $(10, 10)$

6. Show the inverse mapping



Find the algebraic inverse of each function, then verify that they are inverses by composition. Choose two functions and use a graph to verify they are inverses of one another.

7. $f(x) = 15x - 1$

8. $f(x) = \frac{1}{3}x + 7$

9. $f(x) = -5x - 11$

10. $f(x) = (x - 2)^2$

11. $f(x) = \sqrt{x - 4}$

Graph the inverse of the given function. Make sure to show the line of reflection. Draw a smooth curve through each function.

12. Function Points: $(-2, -4)$, $(0, 1)$, $(2, 6)$

13. Function Points: $(4, 2)$, $(2.5, -2)$, $(-1, -5)$