Topic 8.8 Name: _____
Inverse Functions and Relations Date: _____
Homework

Find the inverse of each relation and determine whether the inverse is a function.

1. $\{(2,5),(3,1),(4,8)\}$ 2. $\{(2,-2),(-3,3),(-4,-4)\}$ 3. $\{(2,1),(2,3),(2,7)\}$

Find the inverse of each function.

4. y = 3x 5. f(x) = 2x + 3 6. $y = x^2 - 9$

7. $f(x) = \sqrt{\frac{x}{6}}$ 8. $f(x) = (x^2 - 4)^2$ 9. $y = (x+5)^2 - 2$

Determine whether each pair of functions are inverse functions. Show all of your work!

10. f(x) = 2x – 4
g(x) = $\frac{x+4}{2}$

11. f(x) = $\frac{2x+5}{3}$
g(x) = $\frac{3x-5}{2}$

12. f(x) = $\frac{8}{x-7}$
g(x) = $\frac{8}{x+7}$