Algebra 2
Worksheet 5.7B

NAME_____

Solve $y = f(x)$ for x. Then find the input(s) when the output is 4.

1. $f(x) = \frac{2}{3}x - 8$

2. $f(x) = -\frac{3}{4}x - 7$

3. $f(x) = \frac{2}{5}x + \frac{3}{7}$

4. $y = (x-3)^2 - 16$

Find the inverse of the function and graph.

5. $f(x) = \frac{1}{3}x + 2$

6. $f(x) = 3x - 5$

7. $f(x) = (x+2)^3$

8. $f(x) = \frac{1}{3}x^4, x \geq 0$

Determine whether the functions are inverse functions.

9. $f(x) = \frac{4}{5}x - 1, g(x) = \frac{5x+1}{4}$

10. $f(x) = -(x-2)^2 + 6, g(x) = 2 + (6-x)^{\frac{1}{5}}$

11. $f(x) = \sqrt[5]{x+3} + 2, g(x) = (x-2)^5 - 3$

12. $f(x) = \frac{4}{x-1}, g(x) = \frac{4}{x} + 1$