

M. Algebra II Review KEY  
Part 6 - Inverse functions

6a1] Yes,  $f(x)$  and  $g(x)$  are inverse

6a2] No,  $f(x)$  and  $g(x)$  are not inverse

7a1 ? 7a2 methods:

- o Meth. 1: test for  $f(g(x)) = x$
- o Meth. 2: find  $f^{-1}(x)$  and check if  $f^{-1}(x) = g(x)$

6a3]  $f(x) = x^2 - 10x + 24, x \geq 5$

6a4]  $f(x) = 3x^2 + 36x + 108, x \geq -6$

6a5]  $f(x) = \frac{-2x - 3}{x - 1}$

6a6]  $f(x) = x^{5/3}$

6b]

