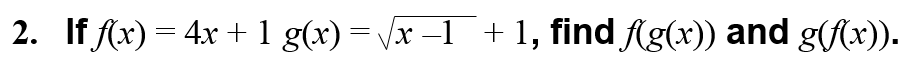
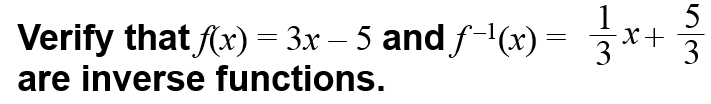
Algebra 2 w/ Trig

3.4 Use Inverse Functions

Warm-Up:

----------------------------------------------------------------NOTES---------------------------------------------------------------------------------------

Example 1: Find an Inverse Relation Example 2: Verify that functions are inverses

**Find an equation for the inverse of the relation** *y* = 3*x* – 5**.**

YOU TRY:

******Find an equation for the inverse of the relation** : **Verify that the following functions are inverses:**

**3.**

****Example 3: Graphing a Function and it’s Inverse

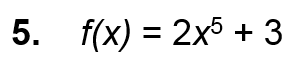
**Find the inverse of *f*(*x*) = *x*2, *x* ≥ 0. Then graph *f* and *f* –1.**

Example 4: Find the Inverse of a Cubic Function

**Consider the function *f* (*x*) = 2*x*3 + 1. Determine whether the inverse of *f* is a function. Then find the inverse.**

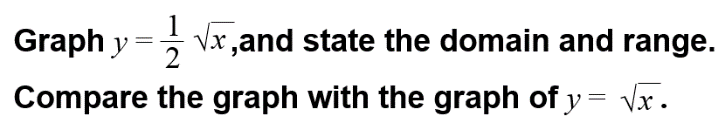
YOU TRY:

**Find the inverse of the function. Then graph the function and its inverse.**



****

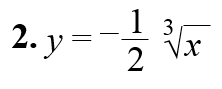
3.5 Graphing Square root and Cube Root Functions

Example 1: Graph a Square Root Function Example 2: Graph a Cube Root Function

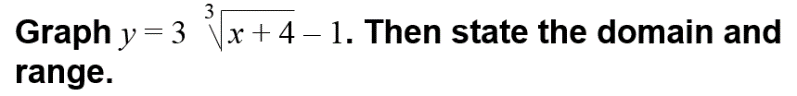
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YOU TRY:

Graph the function. Then state the domain and range.

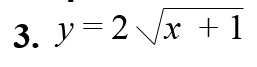
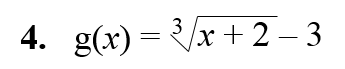
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****Example 3: Graph a Translated Square Root Function Example 4: Graph a Translated Cube Root Function

****

YOU TRY:

Graph the function. Then state the domain and range.

****

Hw: Section 3.5 p. 201 #3-24 all