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| **INSTRUCTIONAL OBJECTIVES:** Pages 117 – 121 (Chapter 1: *Inverse Relations and Inverse Functions*). |
| * Review the definitions of relation and function. |
| * Understand the definition of a *One-to-One Function.* |
| * Be able to use the *Vertical Line Test* and the *Horizontal Line Test* to identify *One to One Functions.* |
| * Find the inverse of a function. |
| * Know when to use inverse functional notation. |
| * Know how to prove that 2 functions are inverses of each other by the appropriate use of composition. |
| * **Technology:** Smart Board, graphing calculator (TI-83 or TI-84). |

***WEDNESDAY, 9.4.24***

**Discuss the previously assigned problems:** ***Quick Review*** 1.5 on page 121 (#1 – 10).

**Class Work/Homework: *Exercises*** 1.5 on page 122 (# 9 – 12, 13, 15, 17, 19, 23, 27).

***FRIDAY, 9.6.24***

**Any questions about the previously assigned problems?**

* ***Exercises*** 1.5 on page 122 (# 9 – 12, 13, 15, 17, 19, 23, 27).

**Class Work/Homework:**

* Page 122 (#29, 31).
* On the coordinate plane on page 2, graph the following:
* f(x) = 2x + 1
* f -1 (x)
* g(x) = x

Make sure that you show their mutual point of intersection.

Show that f **o** f -1 = x.

Show that f -1**o** f = x.

A graph of a cross-section

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***MONDAY, 9.9.24***

**Discuss the previously assigned work.**

**Class Work/Homework:**

Page 122 (#28, 30, 32).

Page 123 (#41, 43, 44).