|  |
| --- |
|  **INSTRUCTIONAL OBJECTIVES:** Pages 115 – 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.
 |
| * Define a relation parametrically.
 |
| * **Technology:** Smart Board, graphing calculator (TI-83 or TI-84).
 |

***TUESDAY, 9.10.24***

**Discuss the previously assigned work.**

Page 122 (#28, 30, 32).

Page 123 (#41, 43, 44).

**Submit your work on the following if you have not already done so:**

* On the same coordinate plane, 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.

**Discuss parametric mode** (pages 115 – 117).

**Class Work/Homework:** Page 122 (#1 – 7).

***THURSDAY, 9.12.24***

**Discuss the previously assigned work:** Page 122 (#1 – 7).

**Class Work/Homework:** Page 474 (#5, 7- 10, 11, 13).

**Study for a QUIZ (Graph a Set of Parametric Equations**) to be taken on Friday.

***FRIDAY, 9.13.24***

**Discuss the previously assigned homework:** Page 474 (#5, 7- 10, 11, 13).

**QUIZ (Graph a Set of Parametric Equations)**

**Class Work/Homework:** Page 474 (#12, 14, 16, 17, 27, 29).