**ALGEBRA**

**SECTION 6 – 1**

**RATE OF CHANGE & SLOPE**

**Domain –**

**Range -**

**Rate of Change** –

**Rate of Change** =

I. Find the Rate of Change using a table of values

**Miles Fee** Find the rate of change for each pair of consecutive

Pairs.

100 30

150 42

200 54

250 66

\*\*Put pairs over top of each other

\*\*Do all in the same order.

II. Find the Rate of Change using a graph.

Time

Airplane Landing

Height

If the rate of change is the same between all points, then the graph is a straight line and is linear.

Slope – rate of change of a line

III. Finding slope from a graph

(-5, 7)

(2, 1)

\*\* 

IV. Finding slope given two points

(-2, 1) (5, 7) (-1, 4) (3, -2)

(2, 5) (4, 7) (*a, b*) (*c, d*)

V. Horizontal Lines & Vertical Lines

(1, 2) (4, 2)

\*\* Since the slope is zero, this means it does not do up or down as it crosses the plane. This creates a

(7, 4) (7, -3)

\*\* Since you cannot divide by zero, this slope means that the line goes up and down, but no across the plane. This is a

**\*\*\*\* KNOW \*\*\*\***

**If slope is:** **the line:**

+ goes UP as it goes from left to right

- goes DOWN as it goes from left to right

0 is horizontal

Undefined is vertical

Assignment: