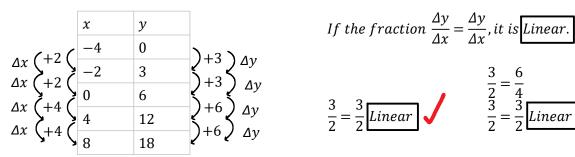
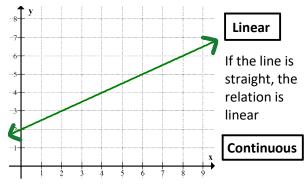
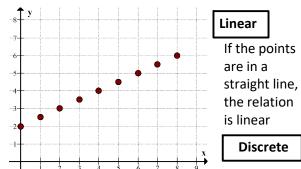
M10 - 6.1 - Linear/Continuous Notes

Table of Values (Linear/Non-Linear)



Graph (Linear/Non-Linear)(Continuous/Discrete)

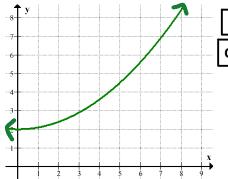


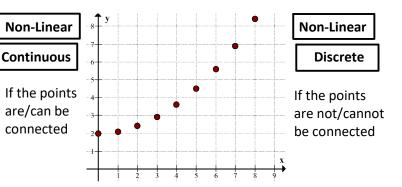


 $\frac{\frac{3}{2}}{\frac{3}{2}} = \frac{\frac{6}{4}}{\frac{3}{2}} = \frac{3}{2} \begin{bmatrix} \frac{1}{2} \end{bmatrix}$

Linear

Continuous: Points are connected





Information: (Continuous/Discrete)

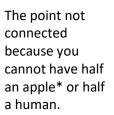
Continuous

Walking to school Filling a cup with water

The points can be connected because you are at each point throughout time.

Discrete

Counting the weight of apples Counting number of Humans



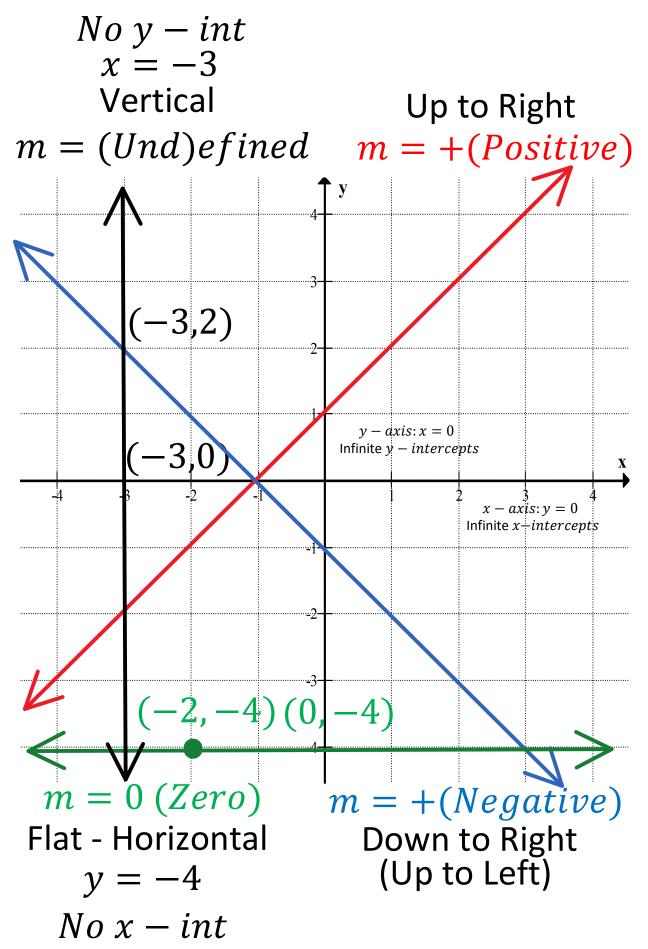
Linear/Non-Linear Make a table of values or graph information and see.

Equations (Linear/Non-Linear)

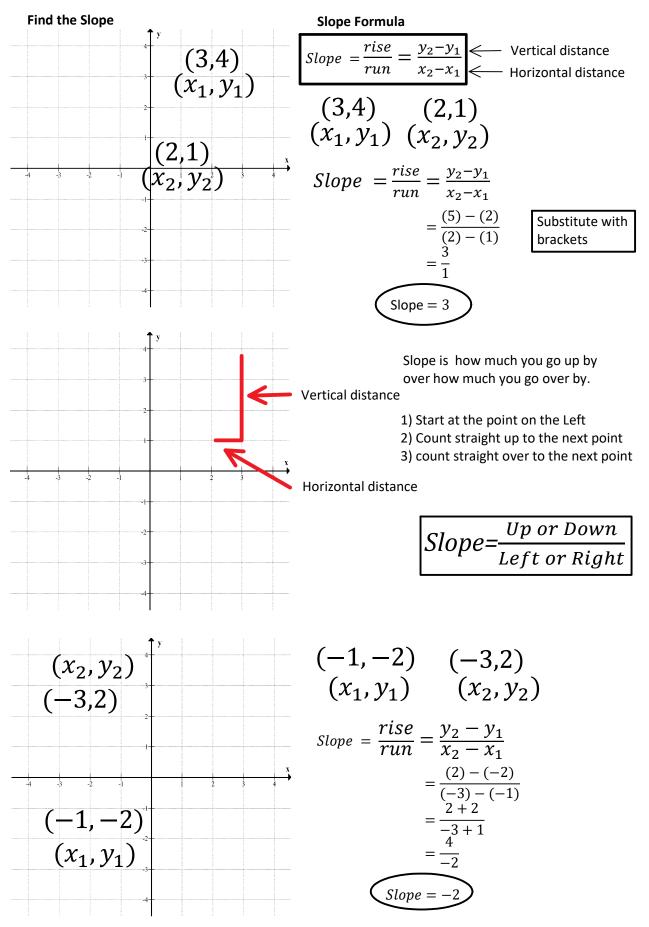
Linear **Non-Linear** If the equation is degree/exponents 0 or 1 $y = x^2$ $y^2 + x^2 = 1$ $y = x^3 - 2x + 4$ 2y + 3x - 4 = 0y = 3x + 1

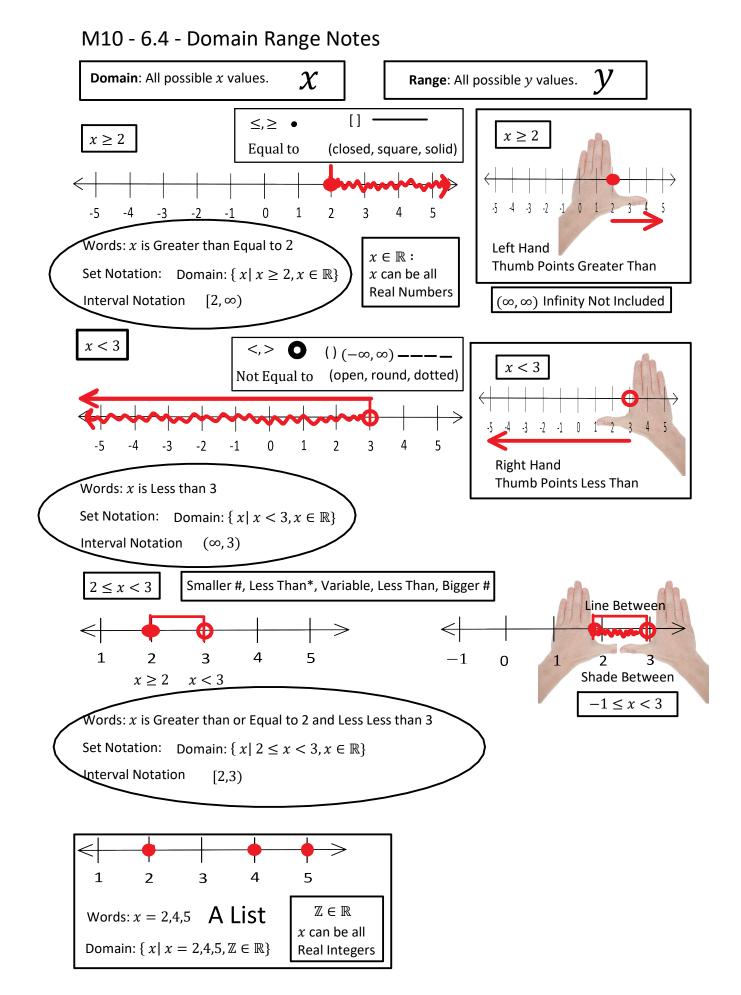
Lin Rel Page 1

M10 - 6.2 - Pos, Neg, Zero, DNE Slope Notes



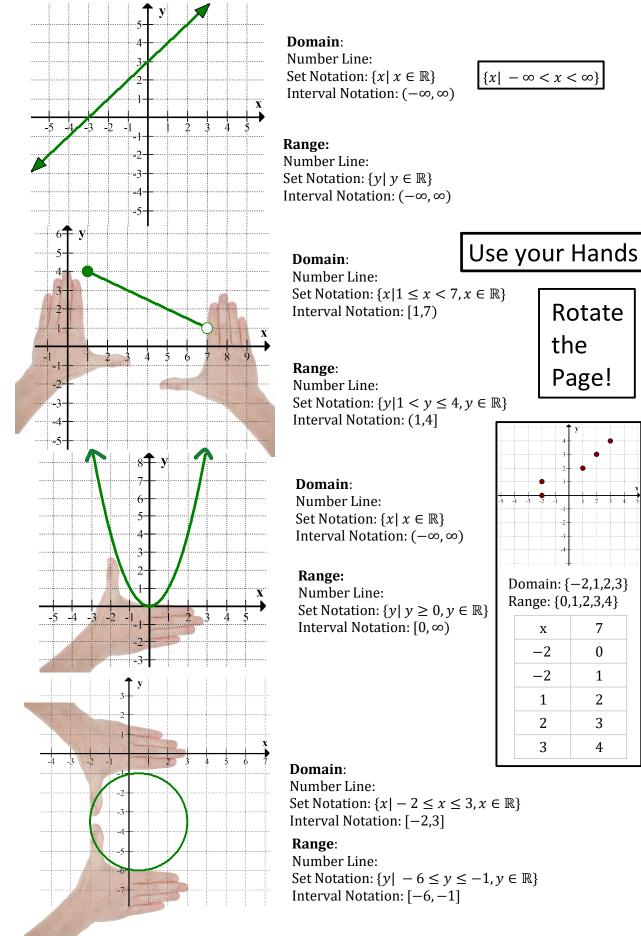
M10 - 6.3 - Slope Formula Notes





Lin Rel Page 4

M10 - 6.5 - Graph: Domain and Range Notes



M10 - 6.6 - Function Vertical Line Test Notes

A Relation is a Function if you only A Relation is NOT a Function with more have one *y* value for every *x* value. **than** one *y* value for any *x* value. Not a function Is a function x ≯ (0,1), (1,2), (2,3), (3,3), (4,5)(0,1) (1,2), (1,3) (2,4), (3,5) x y x y 1 1 1 1 An x value with Each x value 2 2 2 3 more than one only has one y 2 5 4 3 y value value 5 6 3 9 A **Relation** is a **Function** if you run your

A Relation is a Function if you run your pencil vertically along the page and ever hits the line more than once.

Relations

pencil vertically along the page and only

Venn Diagram

cross the line once.

All Functions are Relations Not all Functions are Relations