Honors /	Algebra 2
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Unit 1 – Quadratics

1.11 - Notes

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\_ Date: \_\_\_\_\_

Characteristics of Quadratics Interval Notation: Represents an interval as a \_\_\_\_\_\_. The numbers are the endpoints of the interval. \_\_\_\_\_\_ and/or \_\_\_\_\_\_ are used to show excluded or included. Interval : **Domain and Range: Domain:** The \_\_\_\_\_\_ that are contained in the graph. Write it from \_\_\_\_\_\_. Range: The \_\_\_\_\_\_ that are contained in the graph. Write it from \_\_\_\_\_\_ Examples: 1) D:\_\_\_\_\_ 2) D: \_\_\_\_\_ 3) D: \_\_\_\_\_ R: R: R: 3 2 1 2 3 4 4 5 -5 -4 -3 -2 -1 21 4 5 -2 -2 -3 -3 Interval of Increasing and Decreasing: Extrema: Always read from \_\_\_\_\_\_ to \_\_\_\_\_ Maximum value: the \_\_\_\_\_ point seen • If your finger is going up, the graph is in the data or on the graph. Minimum value: the \_\_\_\_\_ point seen in If going down, the graph is \_\_\_\_\_. the data or on the graph. Example: Inc:\_\_\_\_\_ Extrema: Dec: \_\_\_\_\_ \*\*Only use Parentheses!\*\* Axis of Symmetry: \_\_\_\_\_

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## Zeros/Roots/Solutions/Intercepts



## **Intercepts**

- x-intercept the point at which the line intersects the \_\_\_\_\_. ( )
- y-intercept the point at which the line intersects the \_\_\_\_\_\_. (

## End Behavior:

- What a function keeps doing after it leaves the graph
- \_\_\_\_\_: As x goes to the right, where does y go?
- \_\_\_\_\_: As x goes to the left, where does y go?





a. Domain: \_\_\_\_\_\_b. Range: \_\_\_\_\_\_c. Extrema: \_\_\_\_\_\_d. Axis of Sym: \_\_\_\_\_\_e. Increasing: \_\_\_\_\_\_f. Decreasing: \_\_\_\_\_\_g. Y-Intercept: \_\_\_\_\_\_h. Solutions: \_\_\_\_\_\_i. End Behavior:  $\begin{array}{c} x \rightarrow -\infty & f(x) \rightarrow \______ \\ x \rightarrow +\infty & f(x) \rightarrow \______ \end{array}$ 

