

## Honors Calculus

### *Prerequisites*

The list below contains the specific *learning targets* for the unit on prerequisites. Before the unit quiz, you should be able to place a check next to each statement as being true.

- I can find all intersection points of two functions graphically and algebraically.
- I can write the equation of a line given various information about that line.
- I can interpret slope as a rate of change between two quantities.
- I can describe functions using a variety of notations, including those defined implicitly.
- I can identify and graph common parent functions.
- I can use transformations to graph new functions from common parent functions.
- I can interpret and graph piecewise functions.

### Textbook Assignments

The exercises below are from *Calculus of a Single Variable, 7<sup>th</sup> edition*, by Larson, Hostetler, and Edwards. These specific problems are the bare minimum that should be completed after each lesson, but you are encouraged to attempt more if needed.

- P.1 Intersections **pg 8: 20, 23, 67, 69, 72, 73**
- P.2 Linear Equations / Rates of Change **pg 16: 59, 65, 71, 77, 80**
- P.3 Transformations **pg 27: 11-16, 21-28, 48-51**
- P.4 Functions **pg 27: 7, 9, 33-36, 43, 52, 56, 57, 61, 71, 72**
- P.4 Piecewise Functions **pg 27: 17-20, 31, 37**