

## Precalculus

### *Graph Analysis*

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

- I can find the real zeros of a polynomial or rational function.
- I can determine the end behavior of any function.
- I can identify and describe infinite and removable discontinuities (holes).
- I can define the end behavior asymptote of a rational function.
- I can evaluate limits and use them to describe a functions behavior.

### Textbook Assignments

The exercises below are from *Precalculus: A Graphing Approach* by Hungerford, Jovell, and Mayberry. These specific problems are the bare minimum that should be completed after each lesson, but you are encouraged to attempt more if needed.

- 14.1 Limits **pg 916: 27-32**
- 14.2a One-Sided Limits **pg 927: 7-10**
- 14.5 Limits at Infinity **pg 957: 9-14**
- 4.1 Polynomial Division **pg 248: 9, 11, 19, 21, 47, 48**
- 4.3 Polynomial Functions **pg 269: 15, 17, 19-24, 43, 44**
- 4.3 Analysis of Polynomial Functions **pg 269: 47-51**
- 4.4 Discontinuities **pg 290: 7-12**
- 4.4 End Behavior Asymptotes **pg 290: 13-21 (odd)**
- 4.4 Analysis of Rational Functions **pg 290: 29, 31, 33, 41, 43, 47**

*Assignments are subject to change in class.*