

Precalculus

Graphs of Trigonometric Functions

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

- I can identify the parent graphs for the six trigonometric functions.
- I can solve simple trigonometric equations using graphs.
- I can use transformations to describe the graphs of trigonometric functions.
- I can identify the following qualities in a trigonometric graph from its function:
 - amplitude
 - period
 - reflection
 - phase shift
 - vertical shift
 - extreme values
- I can write the equation of a trigonometric function given its graph.

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.

- 7.1 Graphs of Sine and Cosine **pg 483: 7-10, 12, 13, 15, 16, 35, 41**
- 7.1 Graphs of Tangent **pg 483: 11, 14, 19, 37, 38**
- 7.1 Solving Equations Graphically **pg 483: 20-33**
- 7.2 Other Trigonometric Graphs **pg 491: 18-33**
- 7.3 Amplitude and Period **pg 498: 3, 7, 9, 15, 51, 55, 61, 63, 65**
- 7.4 Phase and Vertical Shift **pg 508: 1, 3, 13, 21, 27, 33, 39**

Assignments are subject to change in class.