

Study Guide  
Explorations in Pre-Calculus  
1<sup>st</sup> Semester

1. Amplitude, Period, Phase and Vertical Shifts
2. Solve trigonometric equations ( $\sin^2 x = \frac{1}{4}$ )
3. Know six trigonometric functions and how to find them ( $\sin x = \frac{1}{4}$ ,  $x$  is in quadrant I)
4. Write equations of sin and cos graphs given data, information, or a graph
5. Know arithmetic and geometric sequences and series
6. Solve sin, cos, and tan function problems with data or pictures.