Class – Pre-Calc

## Overview

This lesson is aimed at teaching the students the derivatives of the six basic trigonometric functions and how they relate to one another. Students should already have knowledge of basic derivatives and also be able to identify the trigonometric functions: sine, cosine, tangent, secant, cosecant, and cotangent. The students should use Bing.com as the source of their information. The actual research on the derivatives is to be done out of class.

## Standards

This lesson applies directly to the Indiana Math Standards for Calculus. C.2.3. Find the derivatives of functions, including algebraic, trigonometric, logarithmic, and exponential functions.


## Objectives

- Students will be able to recall the derivatives of the six functions.
- Students will be able to identify the derivatives of the trigonometric functions with 100% accuracy.
- Students will navigate Bing.com to find the information they need.

## Materials

All that you need to complete this lesson is a computer to look up the derivatives on Bing.com, a pencil, and a piece of paper to write the derivatives down.

## Procedure

1. Students will be introduced in class to Bing.com.
2. In class, the six trigonometric functions will be reviewed.
3. As homework students will have to find the derivatives of the trig functions.
4. The students will write down the derivatives to turn in during class the next day.

## Evaluation

A quiz over the six derivatives will be given in class the next day.