

Essential Trig for Calculus

1. Know the Right Triangle Definitions for all 6 trig functions.
2. Know the Unit Circle definition of $\sin \theta$ and $\cos \theta$ and extend to circles of radius R.

3. Know the following identities:

Fundamental

Pythagorean

Double Angle

Half-angle

4. Evaluate the following WITHOUT using a calculator:
 $\sin \theta, \cos \theta$ for $\theta = 0, \frac{\pi}{2}, \pi, \frac{3\pi}{2}, 2\pi$ and multiples of these.

5. Know the dimensions of 30, 60, 90 triangles.

6. Know the basic graphs of $y = \cos \theta, y = \sin \theta$