

Trig Stuff YOU need to remember:

- Old Definitions:
 - $\tan x = \frac{\sin x}{\cos x}$
 - $\cot x = \frac{1}{\tan x} = \frac{\cos x}{\sin x}$
 - $\sec x = \frac{1}{\cos x}$
 - $\csc x = \frac{1}{\sin x}$
- Pythagorean Triples:
 - $\cos^2 x + \sin^2 x = 1$
 - $\cot^2 x + 1 = \csc^2 x$
 - $1 + \tan^2 x = \sec^2 x$
- 1st Quadrant Behavior
 - $\cos\left(\frac{\pi}{2} - x\right) = \sin x$
 - $\sin\left(\frac{\pi}{2} - x\right) = \cos x$
 - Etc. (tan/cot/csc/sec)
- Addition Identities
 - $\tan(x \pm y)$
 - $\sin(x \pm y)$
 - $\cos(x \pm y)$
- Double Angle Identities
 - $\cos 2x = 1 - 2\sin^2 x$
 - $\sin 2x = 2\sin x \cos x$
- $\sin(\pi - x) = \sin x$
- $\sin(\pi + x) = -\sin x$