

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

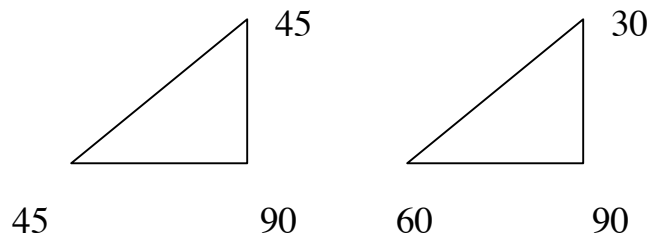
$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

$$r = \sqrt{x^2 + y^2}$$

$$s = r\theta$$



The cosine and secant functions are **even**.

$$\cos(-t) = \cos(t) \quad \sec(-t) = \sec(t)$$

The sine, cosecant, tangent, and cotangent functions are **odd**.

$$\sin(-t) = -\sin(t) \quad \csc(-t) = -\csc(t)$$

$$\tan(-t) = -\tan(t) \quad \cot(-t) = -\cot(t)$$

Formulas for General Form $y = a \sin(bx - c) + d$ **and** $y = a \cos(bx - c) + d$

APTEV $\frac{\text{period}}{4}$ d $|a|$ $bx - c = 0$ $bx - c = 2\pi$ $\frac{2\pi}{b}$