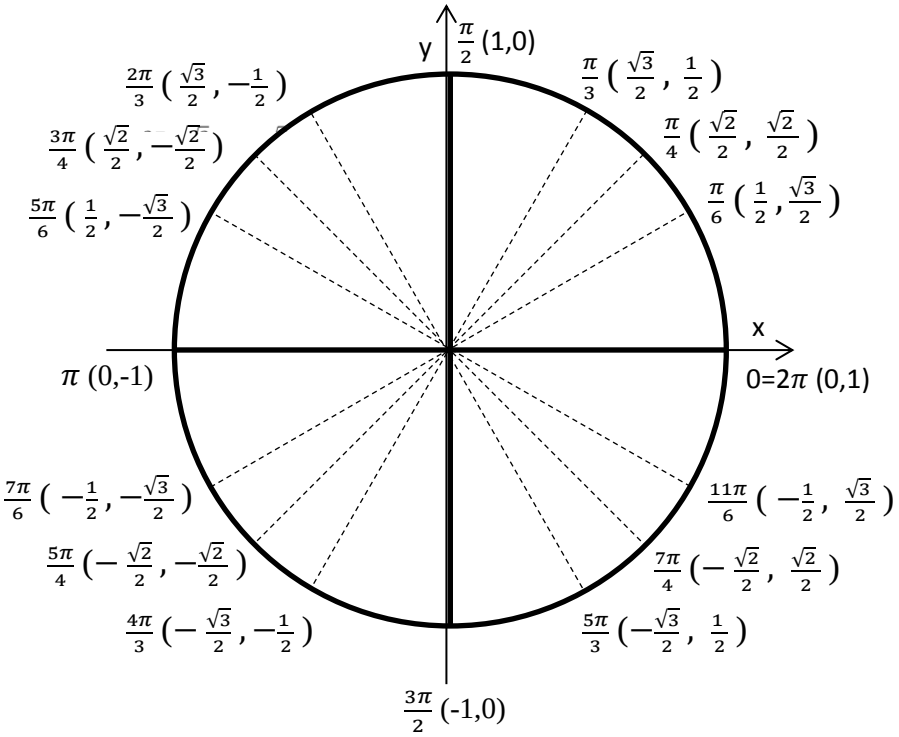
Jednotková kružnice

(sin x , cos x)



sin(x+y)= sin x cos y + cos x sin y
sin(x-y)= sin x cos y - cos x sin y
cos(x+y)= cos x cos y - sin x sin y
cos(x-y)= cos x cos y + sin x sin y

$sin2x = 2\sin x \cos x$
$cos2x = cos^2x - sin^2x$
$cos^2x + sin^2x = 1$

$$\sin x + \sin y = 2\sin\frac{(x+y)}{2}\cos\frac{(x-y)}{2}$$
$$\sin x - \sin y = 2\cos\frac{(x+y)}{2}\sin\frac{(x-y)}{2}$$
$$\cos x + \cos y = 2\cos\frac{(x+y)}{2}\cos\frac{(x-y)}{2}$$
$$\cos x - \cos y = -2\sin\frac{(x+y)}{2}\sin\frac{(x-y)}{2}$$

$$\left|sin\frac{x}{2}\right| = \sqrt{\frac{1-\cos x}{2}}$$
$$\left|cos\frac{x}{2}\right| = \sqrt{\frac{1+\cos x}{2}}$$