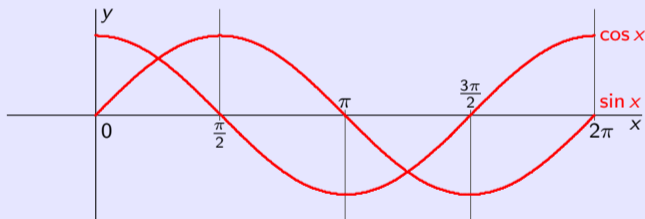


Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

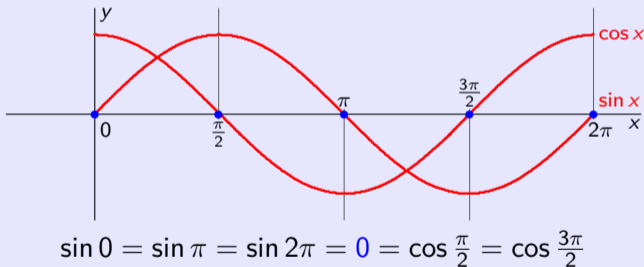
$$\begin{array}{cccccc} 0 & \frac{1}{2} & \frac{\sqrt{2}}{2} & \frac{\sqrt{3}}{2} & 1 & \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 & \end{array}$$



Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

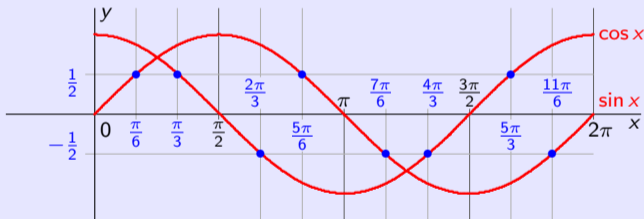
$$\begin{array}{cccccc} 0 & \frac{1}{2} & \frac{\sqrt{2}}{2} & \frac{\sqrt{3}}{2} & 1 \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 \end{array}$$



Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

$$\begin{array}{cccccc} 0 & \frac{1}{2} & \frac{\sqrt{2}}{2} & \frac{\sqrt{3}}{2} & 1 \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 \end{array}$$

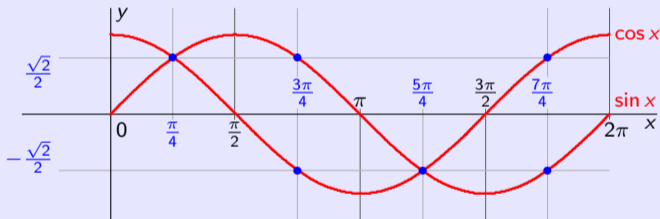


$$\begin{aligned} \sin \frac{\pi}{6} &= \sin \frac{5\pi}{6} = \frac{1}{2} = \cos \frac{\pi}{3} = \cos \frac{5\pi}{3} \\ \sin \frac{7\pi}{6} &= \sin \frac{11\pi}{6} = -\frac{1}{2} = \cos \frac{2\pi}{3} = \cos \frac{4\pi}{3} \end{aligned}$$

Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

$$\begin{array}{cccccc} 0 & \frac{1}{2} & \frac{\sqrt{2}}{2} & \frac{\sqrt{3}}{2} & 1 \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 \end{array}$$



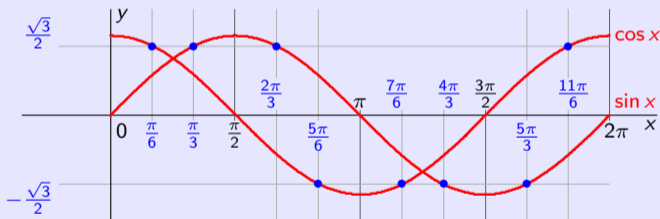
$$\sin \frac{\pi}{4} = \sin \frac{3\pi}{4} = \frac{\sqrt{2}}{2} = \cos \frac{\pi}{4} = \cos \frac{7\pi}{4}$$

$$\sin \frac{5\pi}{4} = \sin \frac{7\pi}{4} = -\frac{\sqrt{2}}{2} = \cos \frac{3\pi}{4} = \cos \frac{5\pi}{4}$$

Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

$$\begin{array}{ccccccc} 0 & & \frac{1}{2} & & \frac{\sqrt{2}}{2} & & \frac{\sqrt{3}}{2} & & 1 \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 \end{array}$$



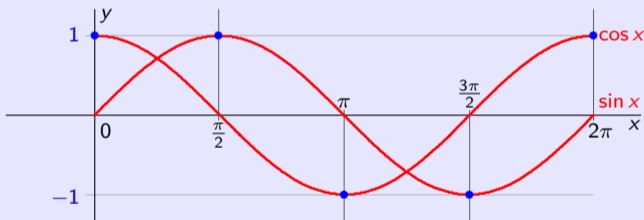
$$\sin \frac{\pi}{3} = \sin \frac{2\pi}{3} = \frac{\sqrt{3}}{2} = \cos \frac{\pi}{6} = \cos \frac{11\pi}{6}$$

$$\sin \frac{4\pi}{3} = \sin \frac{5\pi}{3} = -\frac{\sqrt{3}}{2} = \cos \frac{5\pi}{6} = \cos \frac{7\pi}{6}$$

Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

$$\begin{array}{cccccc} 0 & \frac{1}{2} & \frac{\sqrt{2}}{2} & \frac{\sqrt{3}}{2} & 1 \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 \end{array}$$



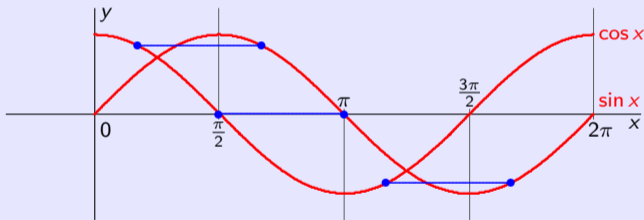
$$\sin \frac{\pi}{2} = 1 = \cos 0 = \cos 2\pi$$

$$\sin \frac{3\pi}{2} = -1 = \cos \pi$$

Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

$$\begin{array}{ccccc} 0 & \frac{1}{2} & \frac{\sqrt{2}}{2} & \frac{\sqrt{3}}{2} & 1 \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 \end{array}$$

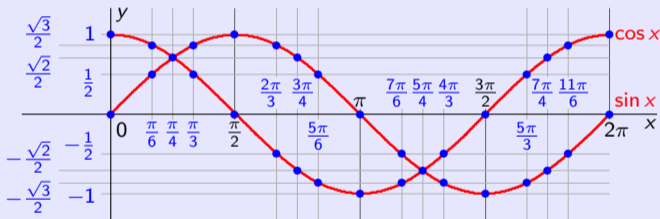


$$\cos x = \sin \left(x + \frac{\pi}{2} \right), \quad \sin x = \cos \left(x - \frac{\pi}{2} \right).$$

Funkcie – goniometrické funkcie

Dôležité hodnoty funkcií sínus a kosínus

$$\begin{array}{cccccc} 0 & \frac{1}{2} & \frac{\sqrt{2}}{2} & \frac{\sqrt{3}}{2} & 1 \\ \sin 0 = \cos \frac{\pi}{2} & \sin \frac{\pi}{6} = \cos \frac{\pi}{3} & \sin \frac{\pi}{4} = \cos \frac{\pi}{4} & \sin \frac{\pi}{3} = \cos \frac{\pi}{6} & \sin \frac{\pi}{2} = \cos 0 \end{array}$$



$$\cos x = \sin \left(x + \frac{\pi}{2} \right), \quad \sin x = \cos \left(x - \frac{\pi}{2} \right).$$