

$$\sin\left(\frac{\pi}{4}\right) = 0,013707$$

$$\left(\frac{\pi}{4}\right) - \frac{\left(\frac{\pi}{4}\right)^3}{3!} = 0,704652$$

$$\left| \frac{0,704652 - 0,013707}{0,704652} \right| \cdot 100 = 98\%$$

$$0,704652 + \frac{\left(\frac{\pi}{4}\right)^5}{5!} = 0,707142$$

$$\left| \frac{0,707142 - 0,704652}{0,707142} \right| \cdot 100 = 0,35\%$$

$$0,707142 - \frac{\left(\frac{\pi}{4}\right)^7}{7!} = 0,707105$$

$$\left| \frac{0,707105 - 0,707142}{0,707105} \right| \cdot 100 = 0,005\%$$