

Taylorova řada kosinu se středem v bodě nula

$$f(x) = \cos x \quad x_0 = 0 \quad f(0) = 1$$

$$f'(x) = -\sin x \quad f'(0) = 0$$

$$f''(x) = -\cos x \quad f''(0) = -1$$

$$f'''(x) = \sin x \quad f^{(3)}(0) = 0$$

$$f^{(4)}(x) = \cos x \quad f^{(4)}(0) = 1$$

$$T(x) = 1 - \frac{1}{2}x^2 + \frac{1}{4!}x^4 - \frac{1}{6!}x^6 + \dots = \sum_{k=0}^{\infty} \frac{(-1)^k}{(2k)!} x^{2k}$$

24