

Bsp zu Taylorpolynomen

Zur Illustration hier noch
der Cosinus:

$$f(x) = \cos(x)$$

$$T_{10}(f, x, 0)$$

$$= 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \frac{x^6}{6!} + \frac{x^8}{8!} - \frac{x^{10}}{10!}$$

$$\boxed{T_0(f, x, 0) = T_1(f, x, 0)}$$

$$\boxed{T_2(f, x, 0) = T_3(f, x, 0)}$$

$$\boxed{T_4(f, x, 0) = T_5(f, x, 0)}$$

$$\boxed{T_6(f, x, 0) = T_7(f, x, 0)}$$

$$\boxed{T_8(f, x, 0) = T_9(f, x, 0)}$$

