Taylor polynomial $T_n(x)$ approximation of $f(x) = \exp(x)$ with Lagrange remainder $(x-a)^{n+1}/(n+1)! \, [f^{(n+1)}(a + theta\,(x-a))]$, $a = 0$

Legend:
- exp(x)
- Taylor polynomial $T_4(x)$ approximation without remainder
- Taylor polynomial $T_4(x)$ approximation with remainder, theta=0.1
- Taylor polynomial $T_4(x)$ approximation with remainder, theta=0.2
- Taylor polynomial $T_4(x)$ approximation with remainder, theta=0.3
- Taylor polynomial $T_4(x)$ approximation with remainder, theta=0.4