

— $f(x) = \cos(x)$

- - $T_3 f(x) = \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}}\left(x - \frac{\pi}{4}\right) - \frac{1}{2! \sqrt{2}}\left(x - \frac{\pi}{4}\right)^2 + \frac{1}{3! \sqrt{2}}\left(x - \frac{\pi}{4}\right)^3$

