

$$T_0(\sin(x), 0) = 1$$

$$T_1(\sin(x), 0) = x$$

$$T_2(\sin(x), 0) = x$$

$$T_3(\sin(x), 0) = x - \frac{x^3}{6}$$

$$T_4(\sin(x), 0) = x - \frac{x^3}{6}$$

$$T_5(\sin(x), 0) = x - \frac{x^3}{6} + \frac{x^5}{120}$$

$$T_6(\sin(x), 0) = x - \frac{x^3}{6} + \frac{x^5}{120}$$

$$T_7(\sin(x), 0) = x - \frac{x^3}{6} + \frac{x^5}{120} - \frac{x^7}{5040}$$

$$T_0(\cos(x), 0) = 1$$

$$T_1(\cos(x), 0) = 1$$

$$T_2(\cos(x), 0) = 1 - \frac{x^2}{2}$$

$$T_3(\cos(x), 0) = 1 - \frac{x^2}{2}$$

$$T_4(\cos(x), 0) = 1 - \frac{x^2}{2} + \frac{x^4}{24}$$

$$T_5(\cos(x), 0) = 1 - \frac{x^2}{2} + \frac{x^4}{24}$$

$$T_6(\cos(x), 0) = 1 - \frac{x^2}{2} + \frac{x^4}{24} - \frac{x^6}{720}$$

$$T_7(\cos(x), 0) = 1 - \frac{x^2}{2} + \frac{x^4}{24} - \frac{x^6}{720}$$

$$T_0(e^x, 0) = 1$$

$$T_1(e^x, 0) = 1 + x$$

$$T_2(e^x, 0) = 1 + x + \frac{x^2}{2}$$

$$T_3(e^x, 0) = 1 + x + \frac{x^2}{2} + \frac{x^3}{6}$$

$$T_4(e^x, 0) = 1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \frac{x^4}{24}$$

$$T_5(e^x, 0) = 1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \frac{x^4}{24} + \frac{x^5}{120}$$

$$T_6(e^x, 0) = 1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \frac{x^4}{24} + \frac{x^5}{120} + \frac{x^6}{720}$$

$$T_7(e^x, 0) = 1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \frac{x^4}{24} + \frac{x^5}{120} + \frac{x^6}{720} + \frac{x^7}{5040}$$

$$T_0\left(\frac{1}{1-x}, 0\right) = 1$$

$$T_1\left(\frac{1}{1-x}, 0\right) = 1 + x$$

$$T_2\left(\frac{1}{1-x}, 0\right) = 1 + x + x^2 \quad \text{--- -- -- --} \rightarrow T_k\left(\frac{1}{1+x}, 0\right) = T_k\left(\frac{1}{1+(-x)}, 0\right) = 1 - x \oplus x^{\textcircled{2}} - \dots - x^k$$

OSS: QUANDO ESPONENTE PARI.
ALORA SEGNO POSITIVO

$$T_3\left(\frac{1}{1-x}, 0\right) = 1 + x + x^2 + x^3$$

$$T_4\left(\frac{1}{1-x}, 0\right) = 1 + x + x^2 + x^3 + x^4$$

$$T_5\left(\frac{1}{1-x}, 0\right) = 1 + x + x^2 + x^3 + x^4 + x^5$$

$$T_6\left(\frac{1}{1-x}, 0\right) = 1 + x + x^2 + x^3 + x^4 + x^5 + x^6$$

$$T_7\left(\frac{1}{1-x}, 0\right) = 1 + x + x^2 + x^3 + x^4 + x^5 + x^6 + x^7$$

$$T_0(\ln(1+x), 0) = 0$$

$$T_1(\ln(1+x), 0) = x$$

$$T_2(\ln(1+x), 0) = x - \frac{x^2}{2}$$

$$T_3(\ln(1+x), 0) = x - \frac{x^2}{2} + \frac{x^3}{3}$$

$$T_4(\ln(1+x), 0) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} \quad \text{--- -- --} \rightarrow T_4(\ln(1-x), 0) = T_4(\ln(1+(-x)), 0) = -x - \frac{x^2}{2} - \frac{x^3}{3} - \frac{x^4}{4}$$

OSS: SEMPRE SEMPRE NEGATIVO

$$T_5(\ln(1+x), 0) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \frac{x^5}{5}$$

$$T_6(\ln(1+x), 0) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \frac{x^5}{5} - \frac{x^6}{6}$$

$$T_7(\ln(1+x), 0) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \frac{x^5}{5} - \frac{x^6}{6} + \frac{x^7}{7}$$