| >
$$f := \ln(1+x)$$
 | $f := \ln(1+x)$ | (1) | > $taylor(f, x = 0)$ | $x - \frac{1}{2}x^2 + \frac{1}{3}x^3 - \frac{1}{4}x^4 + \frac{1}{5}x^5 + O(x^6)$ | (2) | > $aprox := uaylor(f, x = 0, 8)$ | $aprox := x - \frac{1}{2}x^2 + \frac{1}{3}x^3 - \frac{1}{4}x^4 + \frac{1}{5}x^5 - \frac{1}{6}x^6 + \frac{1}{7}x^7 + O(x^8)$ | (3) | > $aprox := convert(aprox, polynom)$ | $aprox := x - \frac{1}{2}x^2 + \frac{1}{3}x^3 - \frac{1}{4}x^4 + \frac{1}{5}x^5 - \frac{1}{6}x^6 + \frac{1}{7}x^7$ | (4) | > $a := subs(x = 1.0, aprox)$ | $a := 0.7595238095$ | (5) | > $evalf(\ln(2.0) - a)$ | $a := 0.7595238095$ | (6) | > "ca sa obtinem $\ln(2)$ cu 5 zecimale trebuic ca Restul din formula lui Taylor $\leq 10^{\circ}(-5)$, $n \geq 10^{\circ} - 5 - 1^{\circ}$ | "ca sa obtinem $\ln(2)$ cu 5 zecimale trebuic ca Restul din formula lui Taylor $\leq -10^{\circ}(-5)$, $n \geq 10^{\circ} - 10^{\circ} - 1^{\circ}$ | $g := \ln\left(\frac{1+x}{1-x}\right)$ | $g := \ln\left(\frac{1+x}{1-x}\right)$ | (8) | $2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + O(x^7)$ | (9) | $2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + O(x^7)$ | (9) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15} + O(x^{17})$ | (10) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15}$ | (11) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15}$ | (11) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15}$ | (11) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15}$ | (12) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15}$ | (11) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15}$ | (12) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}x^{13} + \frac{2}{15}x^{15}$ | (12) | $aprox := 2x + \frac{2}{3}x^3 + \frac{2}{5}x^5 + \frac{2}{7}x^7 + \frac{2}{9}x^9 + \frac{2}{11}x^{11} + \frac{2}{13}$

