ChebyshevT(n, tanh(x)); $T_n(\tanh(x))$ **(1)** plot(ChebyshevT(5, tanh(x)), x=-10..10); -10 5 10 -5 0 \boldsymbol{x} -0.5> cos(n*arccos(tanh(x))); diff(%,x\$2): simplify(%, symbolic); $\cos(n \arccos(\tanh(x)))$ sinh(x)sinh(x) $\sinh(x) + n\cos n \arccos$ $\sin n$ arccos

$$-\frac{n\left(\sin\left(n\arccos\left(\frac{\sinh(x)}{\cosh(x)}\right)\right)\sinh(x)+n\cos\left(n\arccos\left(\frac{\sinh(x)}{\cosh(x)}\right)\right)\right)}{\cosh(x)^{2}}$$
(2)