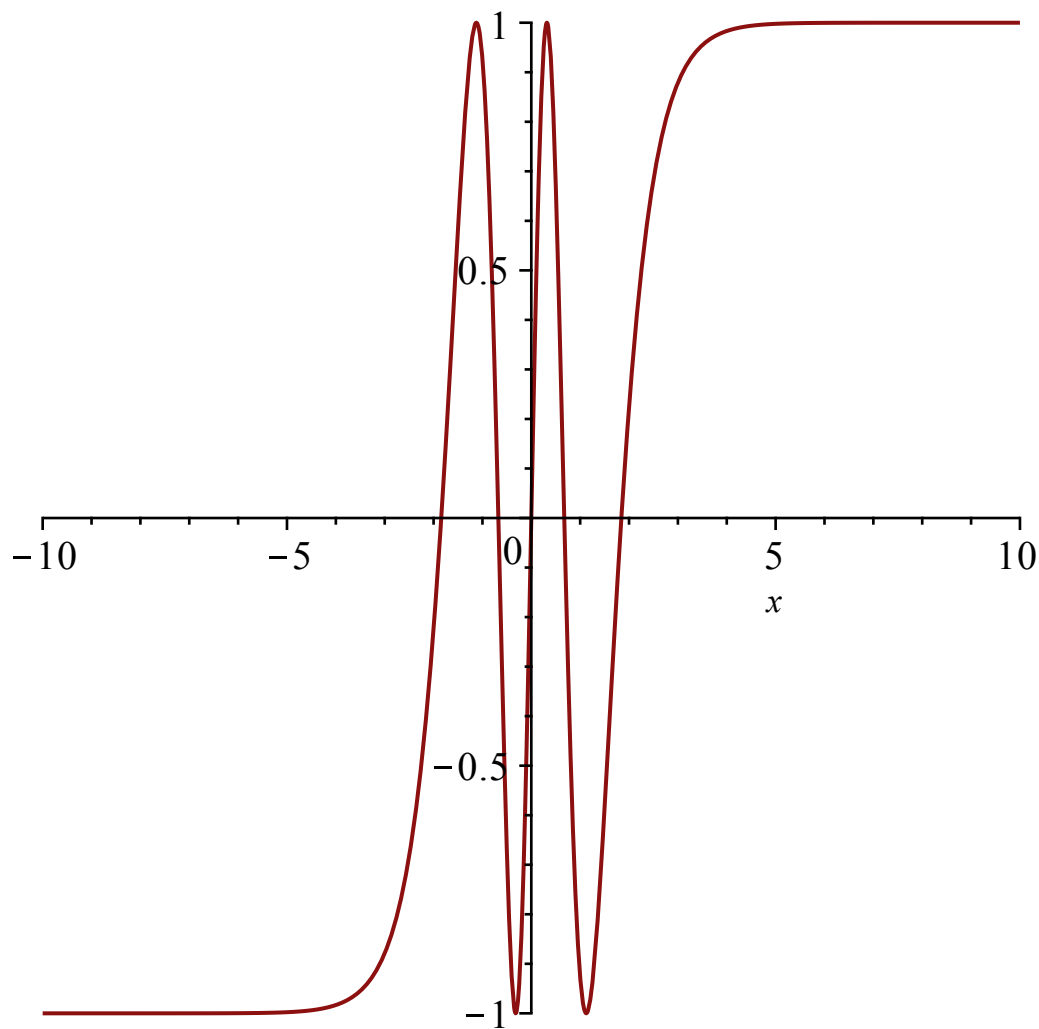


```
> ChebyshevT(n, tanh(x));
```

$T_n(\tanh(x))$

(1)

```
> plot(ChebyshevT(5, tanh(x)), x=-10..10);
```



```
> cos(n*arccos(tanh(x))); diff(%,x$2): simplify(%, symbolic);
```

$\cos(n \arccos(\tanh(x)))$

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

(2)