

**Simplify@With[{K = Knot[4, 1]},**

**{GGA[K], Alexander[K][T], T  $\partial_T$  Log[Alexander[K][T]]}**]

$$\left\{ \frac{T(-3+2T)}{1-3T+T^2}, 3 - \frac{1}{T} - T, \frac{-1+T^2}{1-3T+T^2} \right\}$$