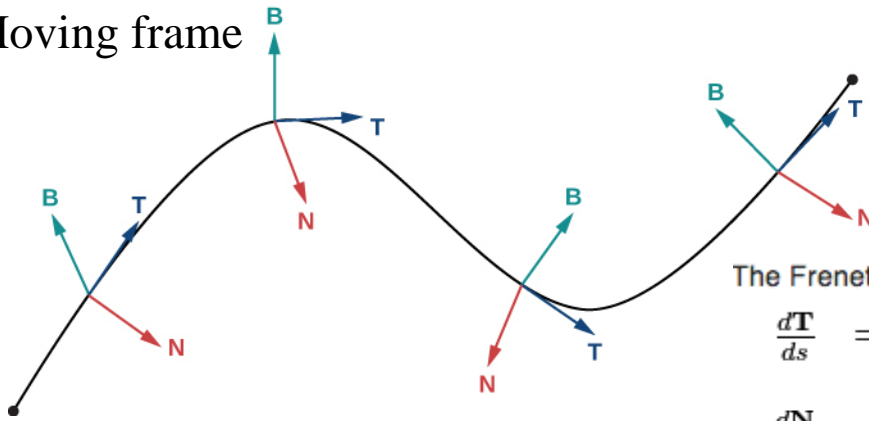


### Moving frame



$\kappa$  = curvature  
 $\tau$  = torsion

The Frenet–Serret formulas are

$$\frac{d\mathbf{T}}{ds} = \kappa\mathbf{N}$$

$$\frac{d\mathbf{N}}{ds} = -\kappa\mathbf{T} + \tau\mathbf{B}$$

$$\frac{d\mathbf{B}}{ds} = -\tau\mathbf{N}$$

### Covariant derivative along a curve $\gamma$

