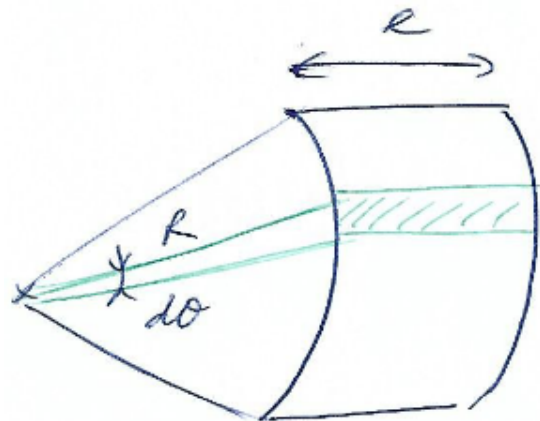
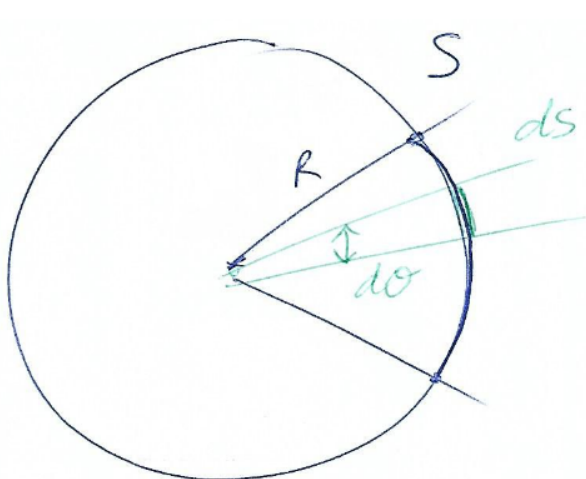
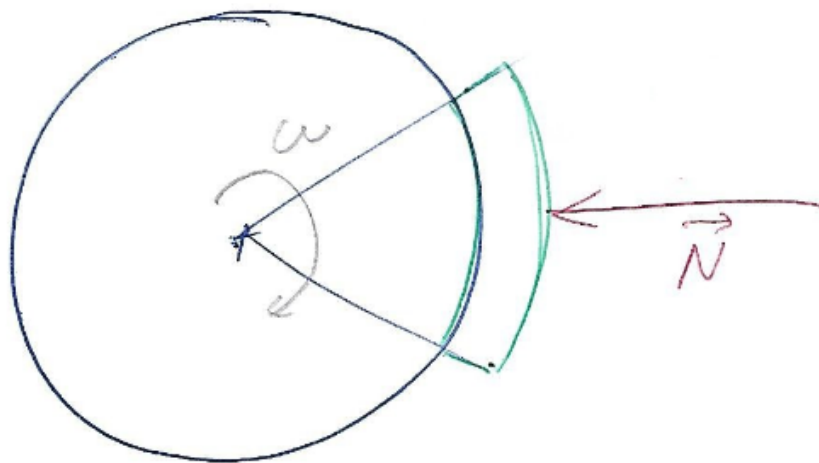
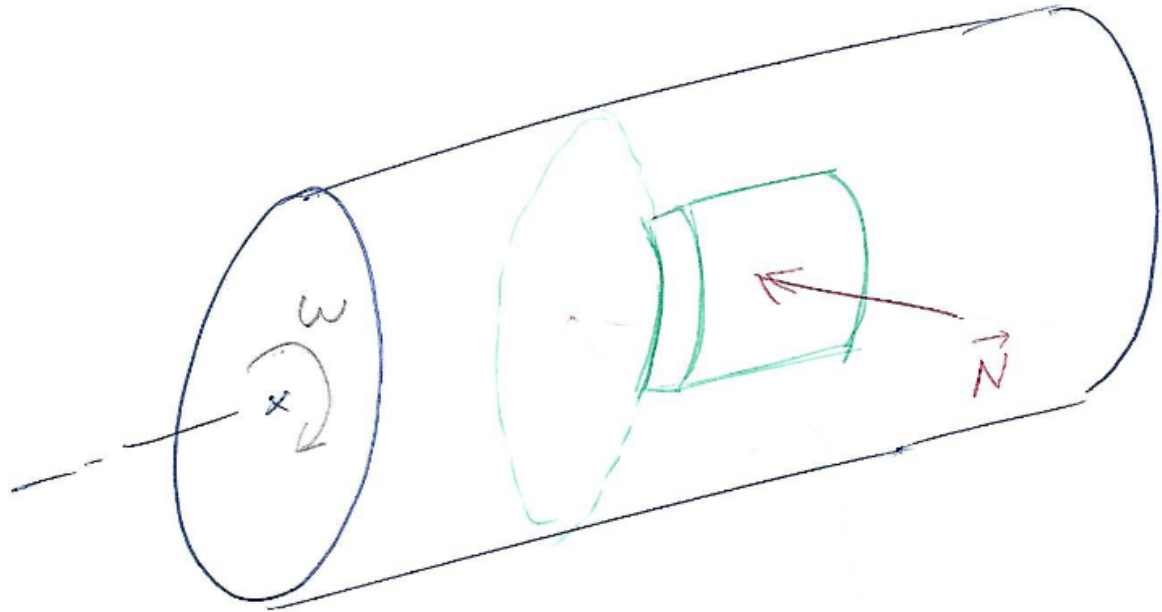
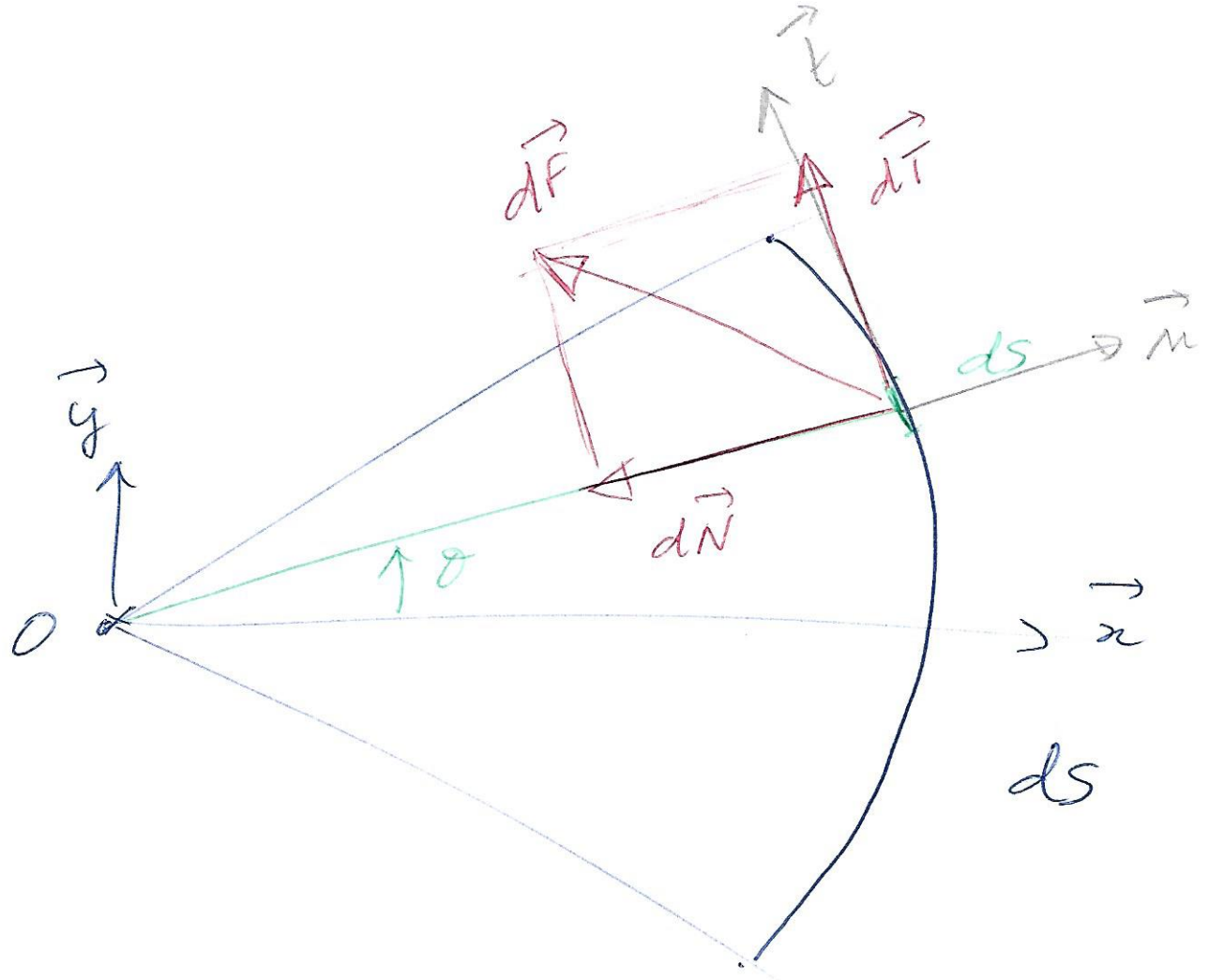


Tour de la terreur (frein à tambour !)



$$ds = r d\theta$$

3



$p$  : pression de contact uniforme

$$d\vec{F} = d\vec{N} + d\vec{T} = -dN\vec{n} + dT\vec{t}$$

$$dN = p \cdot ds \quad \text{avec } ds = r \cdot d\theta$$

$$dT = f \cdot dN \quad (\text{on est sur le c\^one}).$$

$$\Rightarrow d\vec{F} = p \cdot ds (-\vec{n} + f \cdot \vec{t}).$$

On va int\egrer pour avoir  $\vec{F} = \vec{N} + \vec{T}$   
 $\vec{F} = N\vec{x} + T\vec{y}$

Moment \u00e9l\u00e9mentaire :  $d\vec{\Pi}(O) = d\Pi(O) \cdot \vec{y}$   
 $d\Pi(O) = R \cdot dT$

On va int\egrer pour avoir  $\Pi(O) = \dots$