normal direction at x'

## Cylindrical Surface

in relative surface

$$R' = N + ld$$

$$(x'-R)^{2} + y'^{2} = R^{2}$$

$$(x+ld_{2}-R)^{2} + (y+ld_{3})^{2} = R^{2}$$

$$(d_{2}^{2}+d_{3}^{2})l^{2} + 2|x-R|d_{2} + yd_{3}|l + x+y^{2} - 2Rx = 0$$

$$l = \frac{1}{2}l - b + \int_{B^{2}-a.C}^{a} l$$

$$x' = x + ldl.$$