

$$R = | r_N - r_L | \qquad \qquad X = r \cos \sigma$$

$$R = \sqrt{(x_N - x_L)^2 + (y_N - y_L)^2} \qquad \qquad y = r \sin \sigma$$

$$R^{2} = (r_{N} \cos f - r_{L} \cos (wt))^{2} + (r_{N} \sin f - r_{L} \sin (wt))^{2}$$

$$R^{2} = r_{N}^{2} \cos f^{2} - r_{N}r_{L} \cos (wt) \cos f + r_{L}^{2} \cos (wt)^{2}$$

$$+ r_{N}^{2} \sin f^{2} - r_{U}r_{L} \sin (wt) \sin (f) + r_{L}^{2} \sin (wt)^{2}$$

$$R^{2} = r_{N}^{2} (\cos f^{2} + \delta^{3}n f^{2}) + r_{L}^{2} (\cos (wt)^{2} + \epsilon^{3}n (wt)^{2})$$

$$-2 r_{N}r_{L} (\sin (wt) \sin (f) + \cos (wt - f)$$

$$\cos (wt - f)$$

$$R^2 = rN^2 + r_L^2 - 2r_N r_L cas (wt - f)$$
  
 $r_L^2 = position luna \simeq constante = ol$   
 $r_N(t) := position nave at$ 

N(t) := posicion nave oct

$$R = \sqrt{r^2(t) + d^2 - 2r(t)d} \cos(\omega t - \ell)$$