





$$X_1 = (R + r) cos \theta$$

 $Y_1 = (R + r) sin \theta$

$$X_2 = L \cos(\theta + \alpha)$$

 $Y_2 = L \sin(\theta + \alpha)$

$$X = X_1 + X_2 = (R+r) \cos \theta + L \cos (\theta + \alpha)$$

 $Y = Y_1 + Y_2 = (R+r) \sin \theta + L \sin (\theta + \alpha)$