

 $X_1 = L_1 \cos(\Theta_1)$ $X_2 = X_1 + L_2 \cos(\Theta_1 + \Theta_2) = L_1 \cos(\Theta_1) + L_2 \cos(\Theta_1 + \Theta_2)$ $X_3 = X_1 + X_2 + L_3 \cos(\Theta_1 + \Theta_2 + \Theta_3) = L_1 \cos(\Theta_1) + L_2 \cos(\Theta_1 + \Theta_2)$ $+L_3 \cos(\Theta_1 + \Theta_2 + \Theta_3)$ $1 = L_1 \sin(\Theta_1)$ $1 = L_1 \sin(\Theta_1)$ $1 = L_1 \sin(\Theta_1 + \Theta_2)$ $1 = L_1 \sin(\Theta_1)$ $1 = L_1 \cos(\Theta_1)$ $1 = L_1 \cos(\Theta_1)$ 1 =

| NVEN Se $[x_{3}, y_{3}, \phi]$ diven | $x_{2} = x_{3} - t_{3} \cos(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{2} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{2} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} \sin(\theta_{1} + \theta_{2} + \theta_{3})$ | $x_{3} = x_{3} - t_{3} - t$

 $\frac{(os (o2) = \chi_{2}^{2} + \chi_{2}^{2} - (L_{1}^{2} + L_{2}^{2})}{2L_{1}L_{2}}$

 $(05)(01) = \frac{X_2[L_1 + L_2(05)(02)]}{X_2^2 + Y_2^2}$

 $\bigcirc 3 = \emptyset - (G_1 + G_2)$