

$$x^2 + y^2 = l_1^2 + 2l_1l_2 \cos \theta_2 + l_2^2$$

$$\cos \theta_2 = \frac{x^2 + y^2 - l_1^2 - l_2^2}{2l_1l_2} \rightarrow \theta_2 = \cos^{-1} \frac{x^2 + y^2 - l_1^2 - l_2^2}{2l_1l_2}$$

$$a = l_2 \sin \theta_2$$

$$b = l_2 \cos \theta_2$$

$$\tan \alpha = \frac{a}{l_1 + b}$$

$$= \frac{l_2 \sin \theta_2}{l_1 + l_2 \cos \theta_2}$$

$$\alpha = \tan^{-1} \frac{a}{l_1 + b}$$

$$\tan \beta = \frac{y}{x} \rightarrow \beta = \tan^{-1} \frac{y}{x}$$

$$\boxed{\theta_1 = \alpha - \beta}$$

Diketahui: $x_R = -1$ $y_R = 0,6$ $l_1 = 1$ $l_2 = 0,4$

$$\theta_2 = \cos^{-1} \left[\frac{1 + 0,36 - 1 - 0,16}{2(1)(0,4)} \right] = \cos^{-1} \left(\frac{0,2}{0,8} \right) = \pm 75,5^\circ$$