

$$(2) \alpha = \tan^{-1} \frac{y}{x+l_1} = \tan^{-1} \frac{l_2 \sin \theta_2}{l_2 \cos \theta_2 + l_1}$$

$$= -6,79^\circ$$

$$\frac{y_p}{x_p} = \tan(\theta_1 - \alpha) = \tan(50^\circ - (-6,79)) = 1,5276$$

$$y_p = 1,5276 x_p \rightarrow (1)$$

$$x_p^2 + y_p^2 = 1,6091$$

$$x_p^2 + (1,5276 x_p)^2 = 1,6091$$

$$x_p = \sqrt{\frac{1,6091}{1 + (1,5276)^2}} = 0,6947$$

$$y_p = 1,5276 \cdot 0,6947 = 1,0612$$