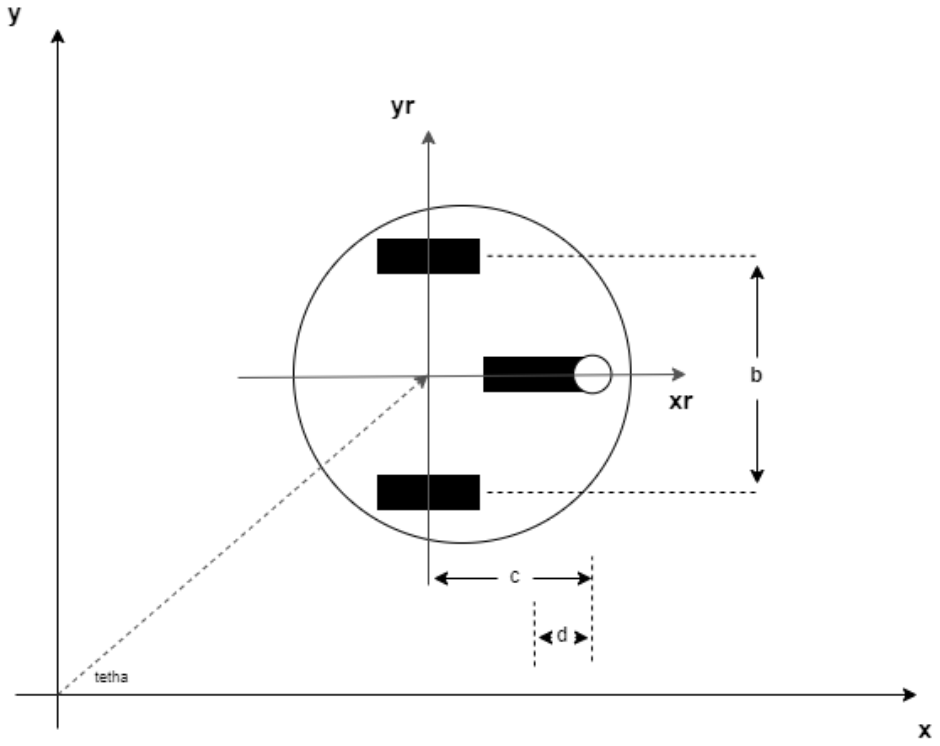
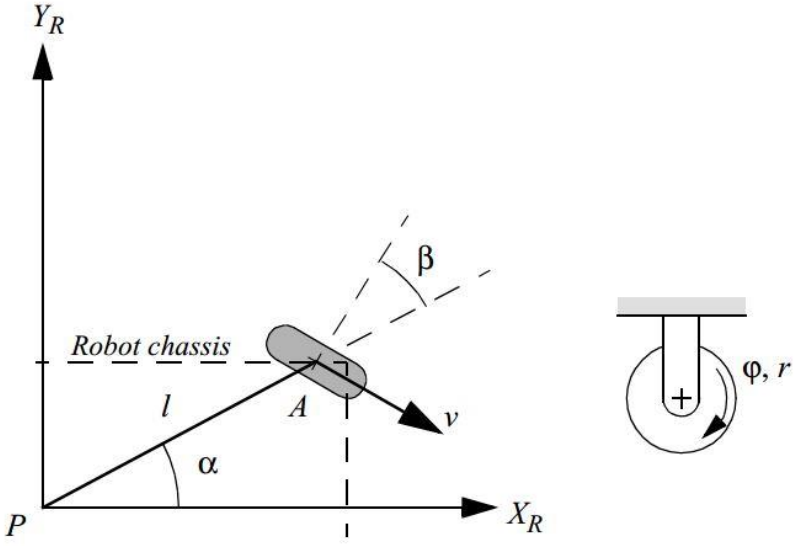
ROBÔ PIONEER



- Roda Padrão Fixa



- Roda Direita:

φ_r = -90º
$\alpha_r = 180°$
$l_r = \frac{b}{2}$

$$[0 \quad 1 \quad 0]({}^{I}R_{R})^{T}.q' = 0$$

$$[1 \quad 0 \quad \frac{b}{2}]({}^{I}R_{R})^{T}.q' = w_r.r_r$$

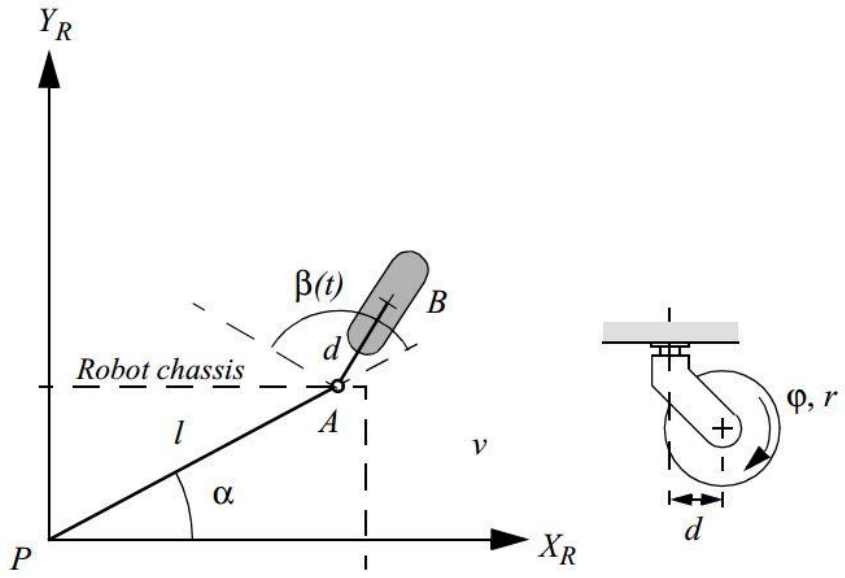
- Roda Esquerda:

φ_l = 90º
$\alpha_l = 0°$
$l_l = \frac{b}{2}$

$$[0 \quad 1 \quad 0]({}^{I}\mathrm{R}_{\mathrm{R}})^{\mathrm{T}}.\mathrm{q}' = 0$$

$$[1 \quad 0 \quad -\frac{b}{2}]({}^{I}R_{R})^{T}.q' = w_l.r_l$$

- Roda Castor:



φ_c = 0º
$\alpha_c = t$
$l_c = c$
$d_c = d$

$$[\cos(t) \quad sent(t) \quad d + c.sent(t)]({}^{I}R_R)^T.q' = -d\,.\dot{t}$$

$$[sen(t) \quad -\cos(t) \quad -c.\cos(t)]({}^{I}R_R)^T.q' = w_c\,.r_c$$