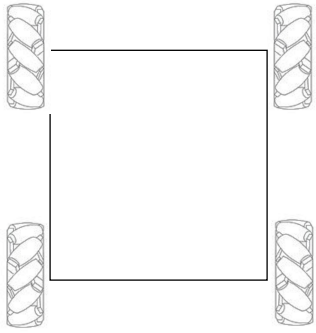
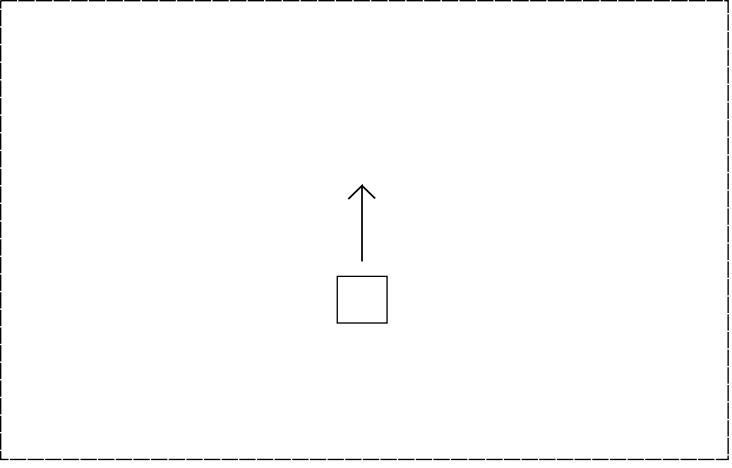
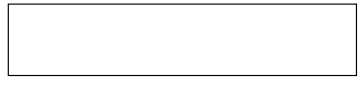
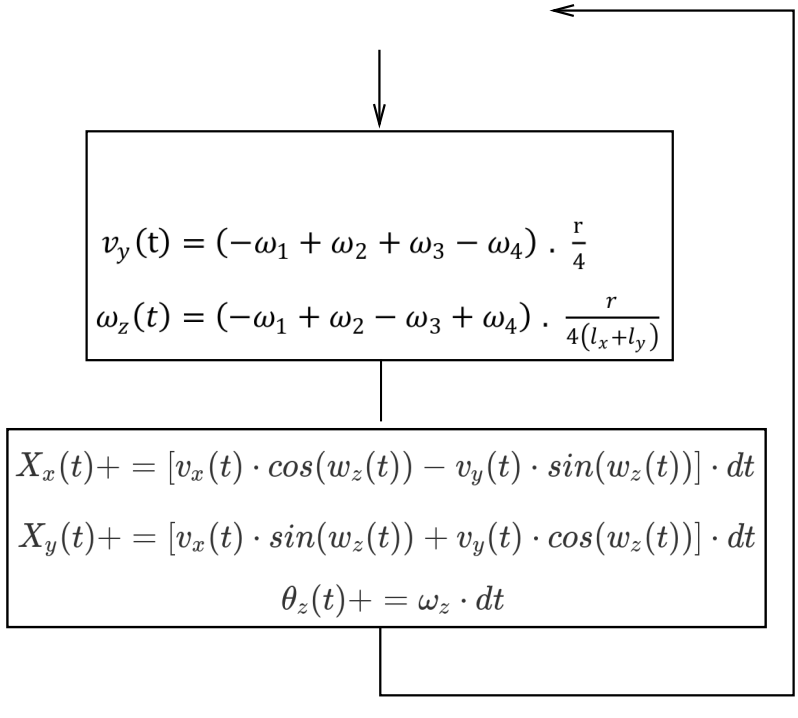






$$v_x(t) = (\omega_1 + \omega_2 + \omega_3 + \omega_4) \cdot \frac{\mathrm{r}}{4}$$


$v_y(t) = (-\omega_1 + \omega_2 + \omega_3 - \omega_4) \cdot \frac{r}{4}$
$\omega_z(t) = (-\omega_1 + \omega_2 - \omega_3 + \omega_4) \cdot \frac{r}{4(l_x + l_y)}$
$X_x(t) += [v_x(t) \cdot cos(w_z(t)) - v_y(t) \cdot sin(w_z(t))] \cdot dt$
$X_y(t) += [v_x(t) \cdot sin(w_z(t)) + v_y(t) \cdot cos(w_z(t))] \cdot dt$
$\theta_z(t) += \omega_z \cdot dt$