$$v = \frac{r_{wheel} \cdot (u_{right} + u_{left})}{2} \qquad \omega = \frac{r_{wheel} \cdot (u_{right} - u_{left})}{B}$$

$$v = R \cdot \omega \qquad \kappa = \frac{1}{R}$$

$$\omega \sim \kappa \quad \text{if } v \text{ constant}$$

$$u_{right} = \frac{b \cdot v}{2 \cdot r_{wheel}} \kappa + \frac{v}{r_{wheel}} \qquad u_{left} = \frac{-b \cdot v}{2 \cdot r_{wheel}} \kappa + \frac{v}{r_{wheel}}$$