

CS685 Homework 2

Yue Hao, yhao3@gmu.edu

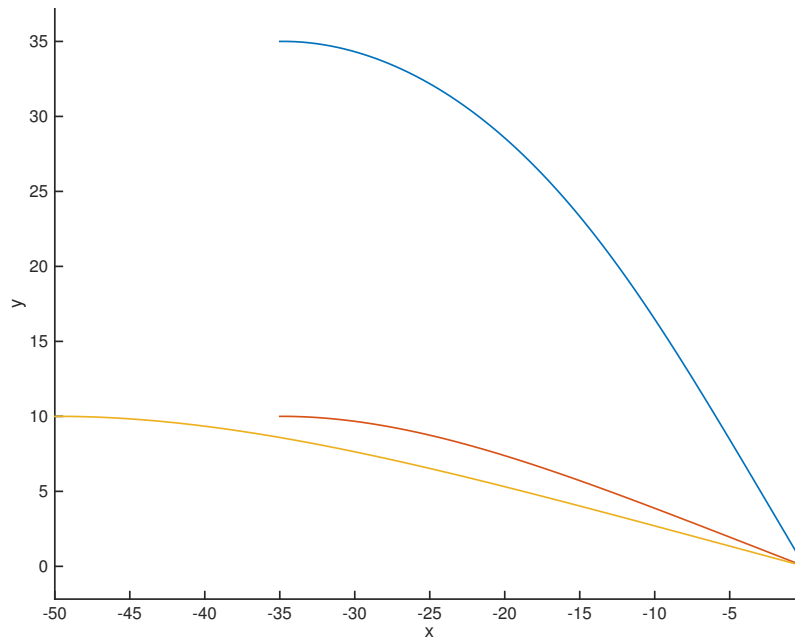


Figure 1: goToPoint, start at $(-35, 35), (-35, 10), (-50, 10)$, initial orientation is all 0, goal is $(0, 0)$. $K_v = 1$, $K_h = 4$, $\delta = 0.01$.

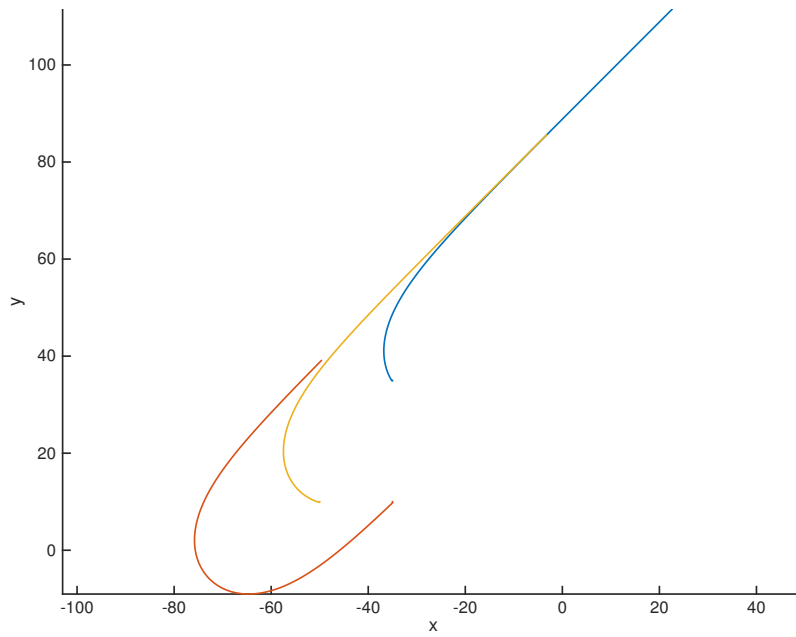


Figure 2: goToPoint, start at $(-35, 35), (-35, 10), (-50, 10)$, initial orientation is all 0, following line $(-1, 1, 0)$. $K_d = 1$, $K_h = 10$, $\delta = 0.01$.

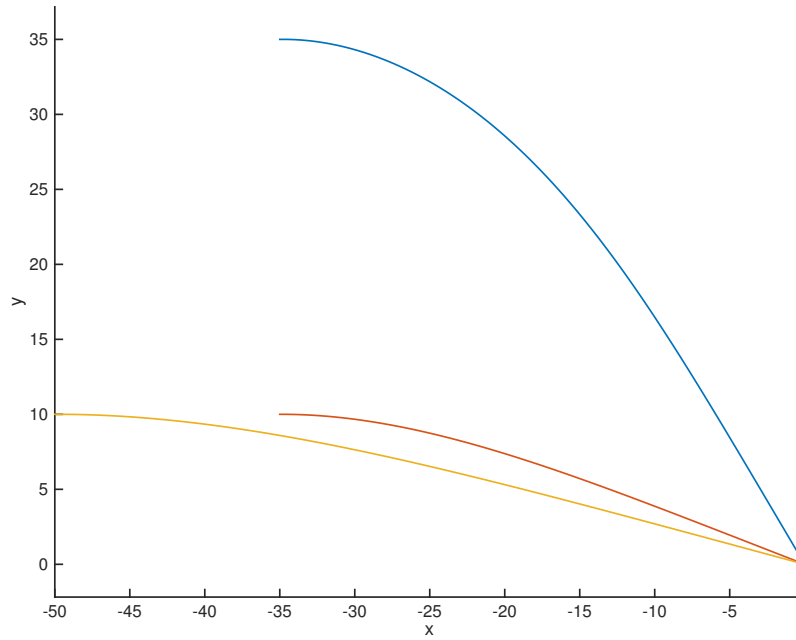


Figure 3: goToPose, start at $(-35, 35), (-35, 10), (-50, 10)$, initial orientation is all 0, goal is $(0, 0)$. $K_\rho = 3$, $K_\alpha = 8$, $K_\beta = -1.5$, $\delta = 0.01$.

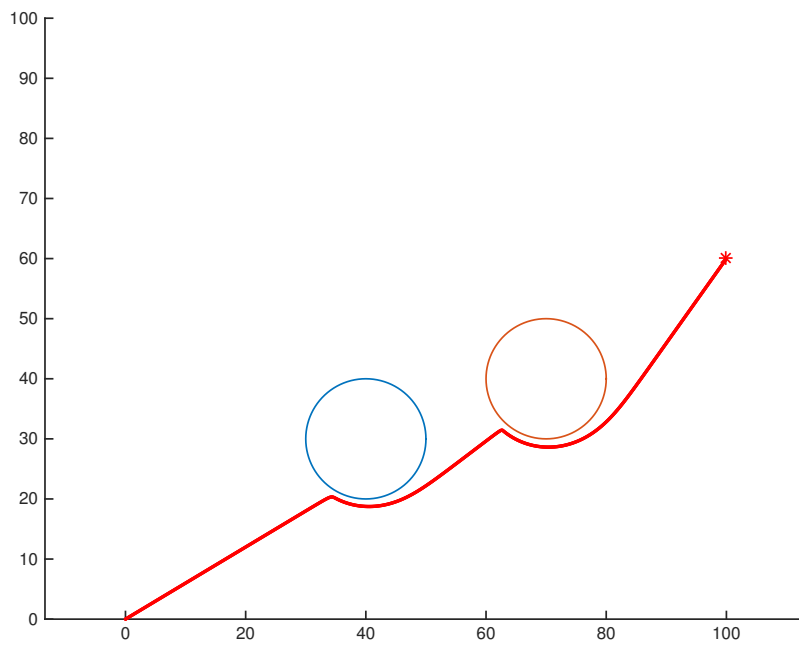


Figure 4: goToAvoid, $\xi = 1$, $\rho_0 = 8$, $v = 100$, $\delta = 0.1$