

# CS685 Homework 2

Yue Hao, yhao3@gmu.edu

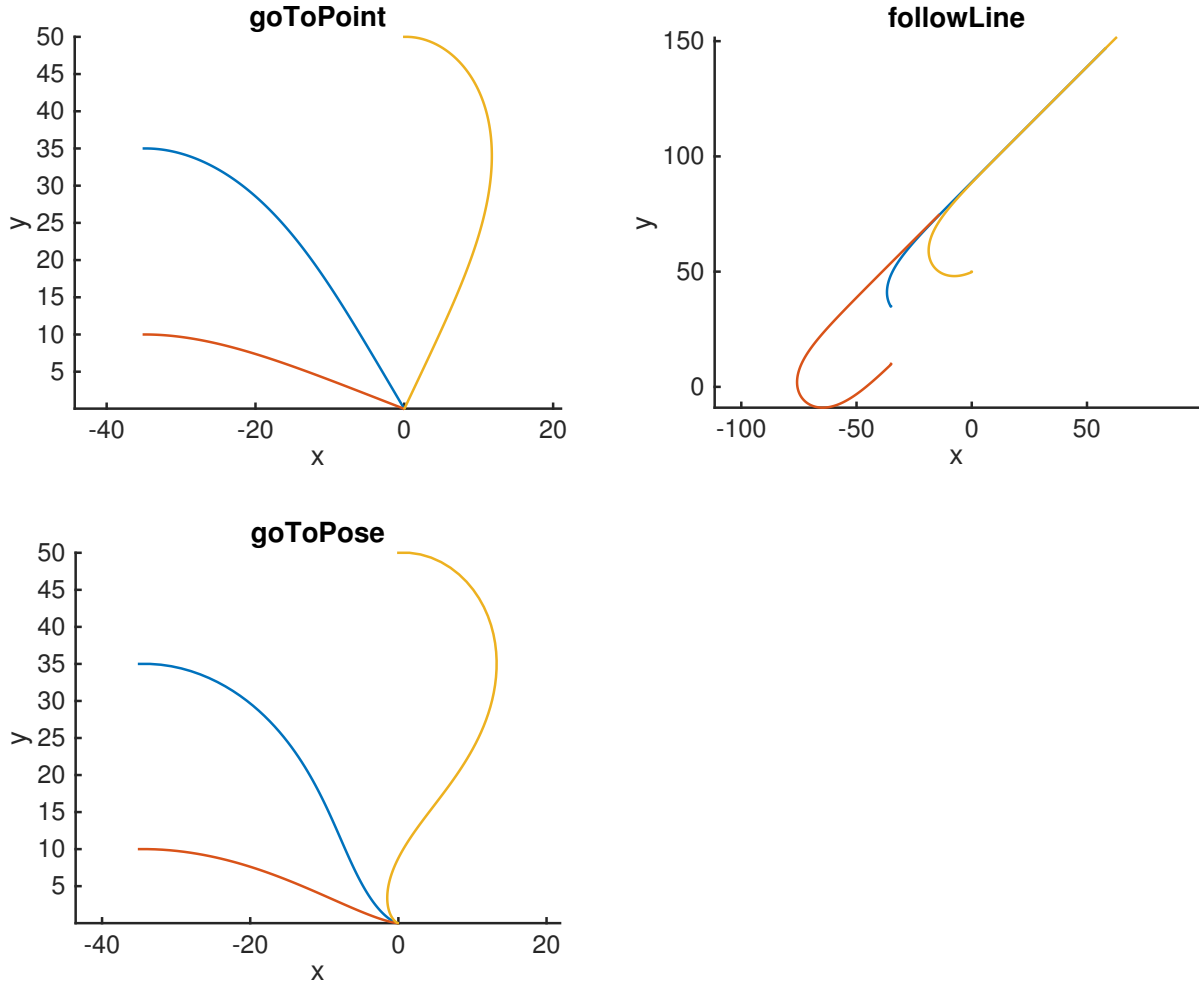


Figure 1: Start at  $(-35, 35), (-35, 10), (0, 50)$ , initial orientation is all 0, goal is  $(0, 0)$ ,  $\delta = 0.01$ . GoToPoint  $K_v = 1$ ,  $K_h = 4$ . followLine  $K_d = 1$ ,  $K_h = 10$ . goToPose  $K_\rho = 3$ ,  $K_\alpha = 8$ ,  $K_\beta = -1.5$ .

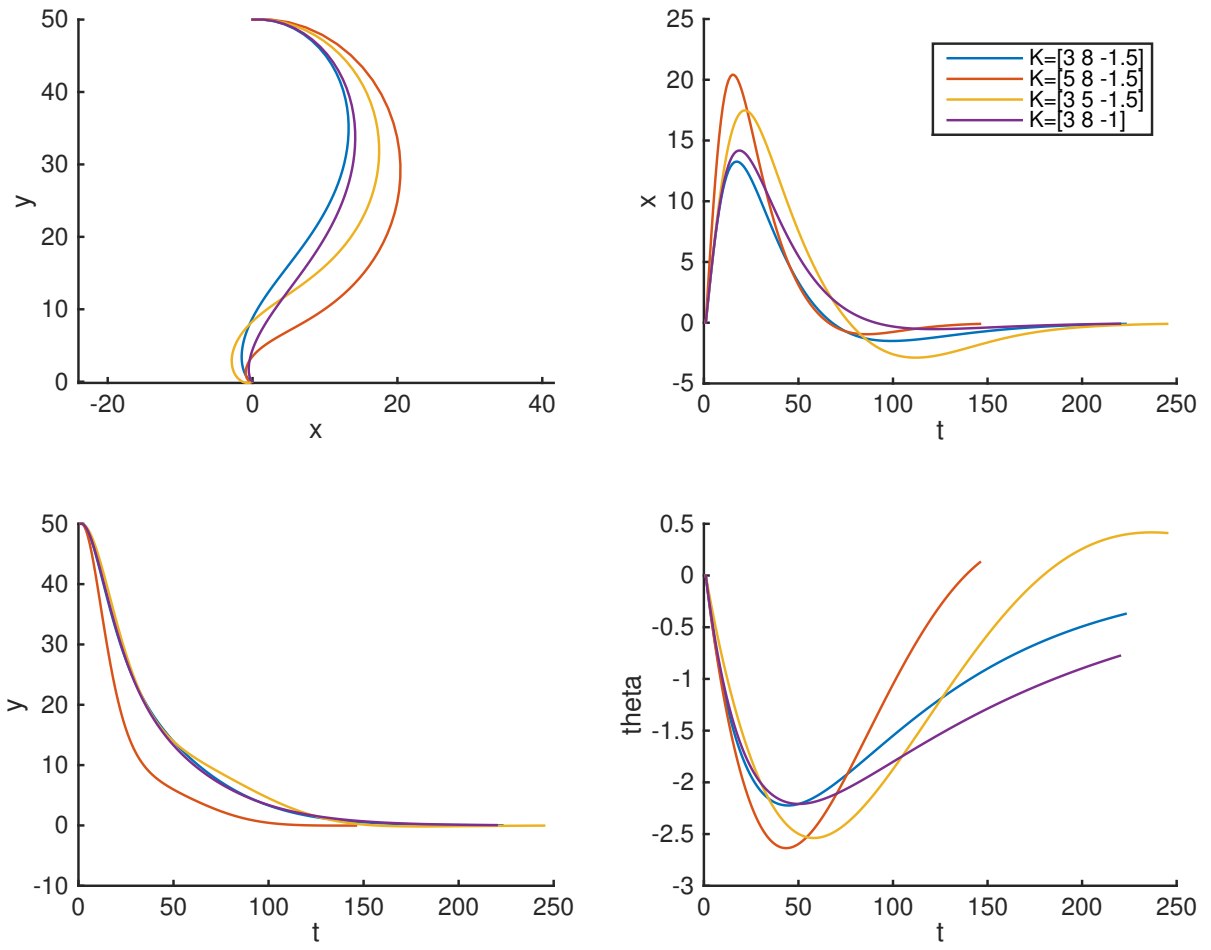


Figure 2: goToPose with different parameters, start at (0, 50), initial orientation is 0, goal is (0, 0).  $[K_\rho \ K_\alpha \ K_\beta]$  is shown in legend,  $\delta = 0.01$ .

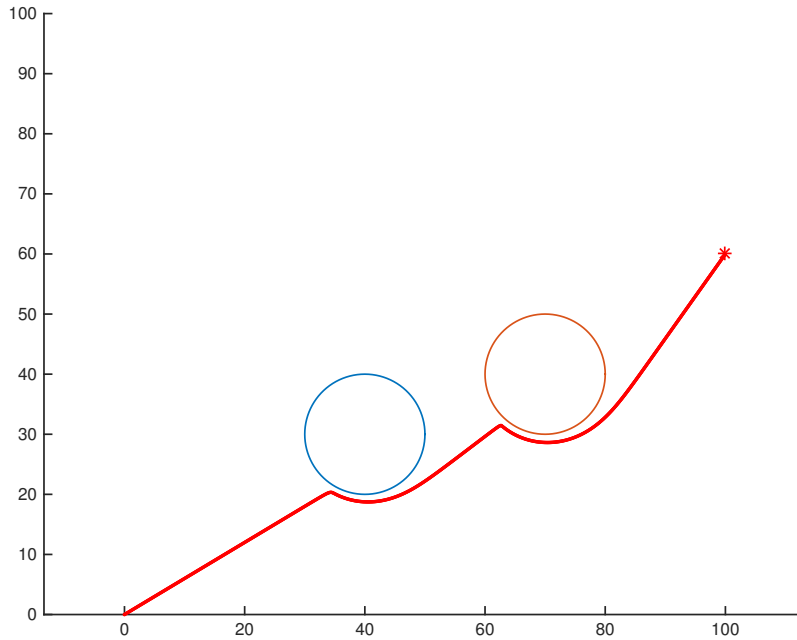


Figure 3: goToAvoid,  $\xi = 1$ ,  $\rho_0 = 8$ ,  $v = 100$ ,  $\delta = 0.1$