
CSCE574 – Robotics
Spring 2012 – Homework 5

Assigned: February 2

Due: February 7

name

Suppose you want to control a very small differential drive robot whose wheels are 4cm apart. The robot starts at $x = (5, 5, 0)$ and wants to navigate to $x' = (10, 10, \pi/2)$. Each wheel velocity must remain between -2cm/s and 2cm/s .

Give a sequence of one or more actions, each specified by wheel velocities v_l, v_r , along with the amount of time to apply these velocities, to move the robot from its starting point to its goal.

v_l	v_r	Δt	resulting state