Report

Robotics: Dynamics and Control

Assignment 2

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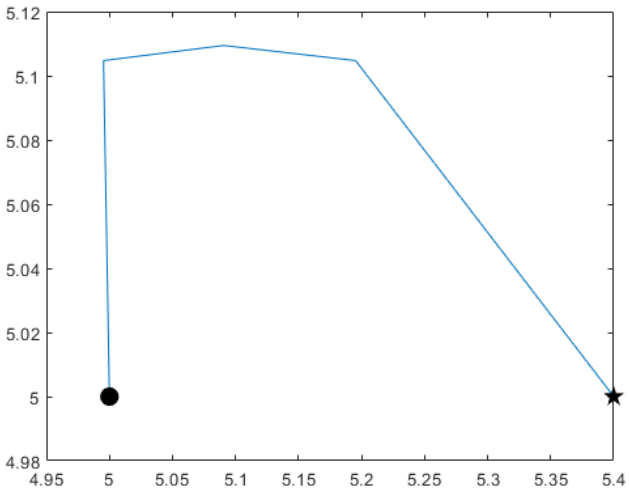
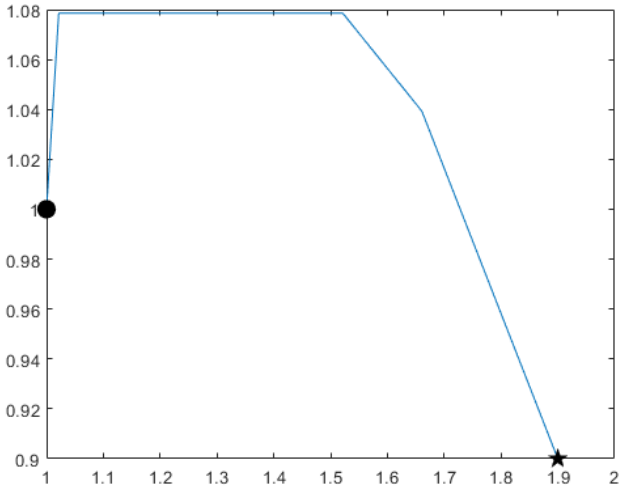
1. Test case result

Initial state: x(0) = 5, y(0) = 5, v(0) = 1, θ(0) = pi/3
Target state: x(N) = 5.5, y(N) = 4.9
Tolerance: 0.1 for both x and y
N = 4.
The solution can not be found for N < 4.



2. Test case result

Initial state: x(0) = 1, y(0) = 1, v(0) = 1, θ(0) = pi/4
Target state: x(N) = 2, y(N) = 1
Tolerance: 0.1 for both x and y
N = 8
The solution can not be found for N < 8.



3. Background work