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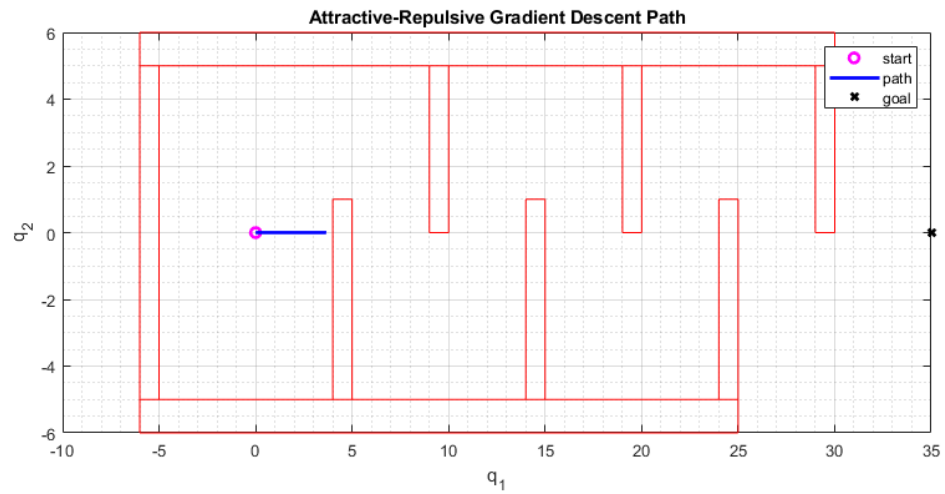
# Table of Contents

.....	1
i) .....	1
ii) Path .....	2
iii) .....	2
iv) .....	2

i)

*I was unable to get the robot to move up from the start position  
Since the robot was surrounded evenly by obstacles from the top and  
bottom there was no force component in the up direction thus a local  
minimum was encountered*

## ii) Path



## iii)

The lenght of path 2 is: 26.263250

## iv)

No, I would expect different path lengths since the Qstar influences how close a robot can come to a certain obstacle and since the obstacles are near the robots path to goal the robot would surely be swayed if Qstar is decreased

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