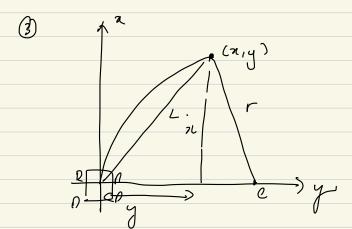
1) No cartographer

2) waypoint - logger

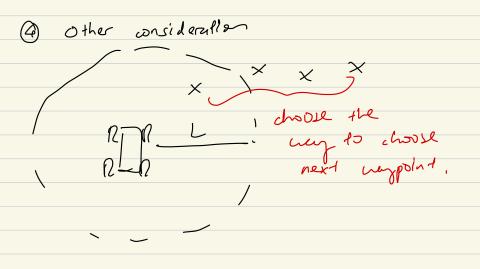
Lo drive around track manually

bo run logger in buckground.

** waypoints locations and #1



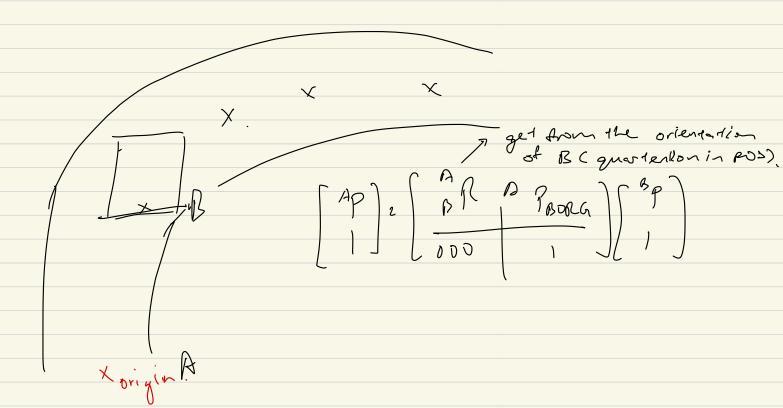
121-y 121-y 122221y2



trade off between - vehille opeed - distance travelled.

(5) Visualizing waypoints.

mapping of point from frame A to B.

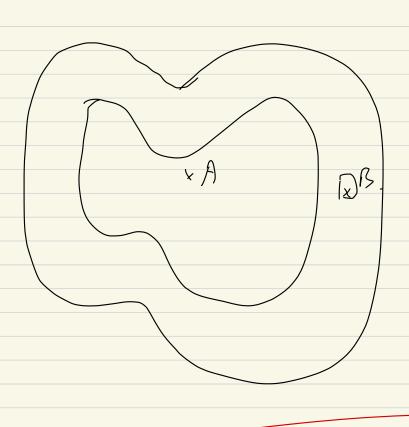


```
cur_matrix = matrix.reshape(3,4)
cur_matrix_homo = np.vstack((cur_matrix, np.array([0, 0, 0, 1]))) # to homogenous coordinates

q = tf.transformations.quaternion_from_matrix(cur_matrix_homo)

p = Pose()
p.position.x = matrix[0][3]
p.position.y = matrix[1][3]
p.position.z = matrix[2][3]
p.orientation.x = q[0]
p.orientation.y = q[1]
p.orientation.z = q[2]
p.orientation.w = q[3]
```

https://answers.ros.org/question/379109/transformation-matrices-to-geometry_msgspose/



[AP]. [BR | PROLG] [BP].

doubt

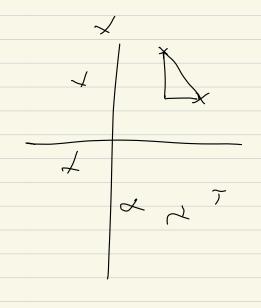
do the transformation d'inst.

7-duti: (n-v2)

7-dlf: (x-vx) y-d'lf: (y-vy) L2-dist: syrtkx.d'lf+ y-d'lf].

van.

45



gut the index

gut the Ling

you ke (2)

you ke (2)

steering define

note int.

publish steering angle.

0.13,