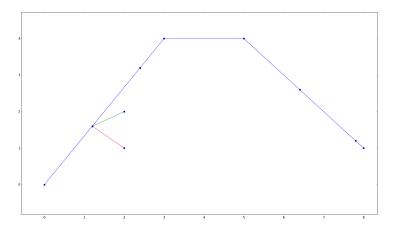
Robotiks WS17/18

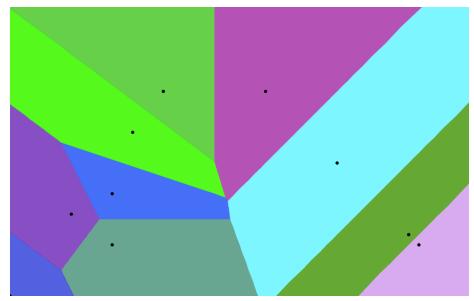
Assignment 11

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Repo: https://github.com/al-eax/robotik_ws1718

1)





We used this tool for visualization: $\label{eq:http://alexbeutel.com/webgl/voronoi.html} \text{We used this tool for visualization: } \text{http://alexbeutel.com/webgl/voronoi.html}$

2)

LSL

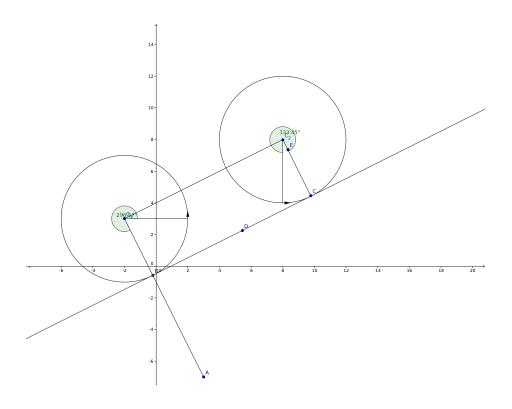
$$U=2*r*\pi=25.13$$

$$L_1 = \frac{296^{\circ}}{360^{\circ}} * U = 20.66$$

$$S = 11.18$$

$$L_2 = \frac{333.45^{\circ}}{360^{\circ}} = 11.64$$

$$LSL = 43.42$$



$\mathbf{L}\mathbf{R}\mathbf{L}$

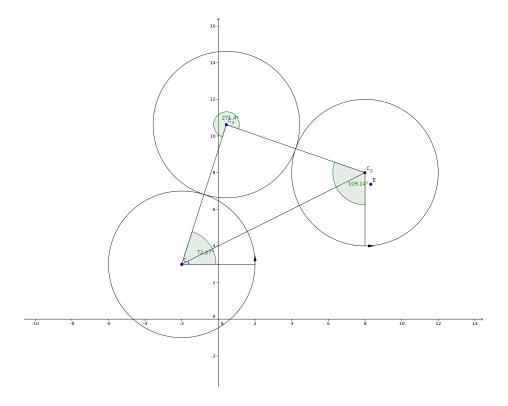
$$L_1 = \frac{72.27^{\circ}}{360^{\circ}} * U = 2.52$$

$$L_1 = \frac{72.27^{\circ}}{360^{\circ}} * U = 2.52$$

$$R = \frac{271.4^{\circ}}{360^{\circ}} * U = 9.47$$

$$L_2 = \frac{109.14^{\circ}}{360^{\circ}} * U = 3.81$$

$$LRL = 15.8$$



RSL

Both circles intercept. To reach the second car position there is no way to change the cars direction from right to left by one $\bf Straight$ action.

