

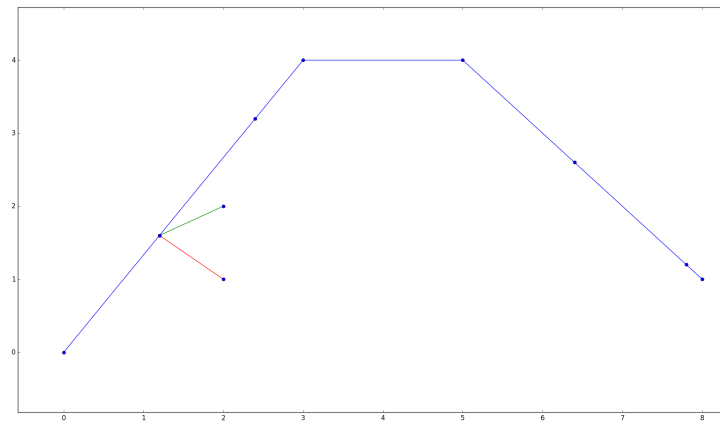
Robotiks WS17/18

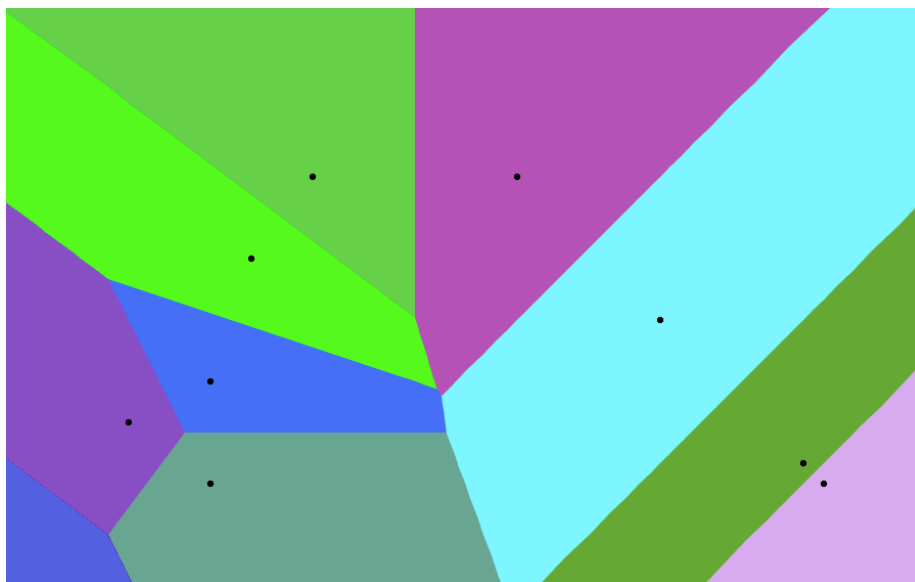
Assignment 11

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

1)





We used this tool for visualization: <http://alexbeutel.com/webgl/voronoi.html>

2)

LSL

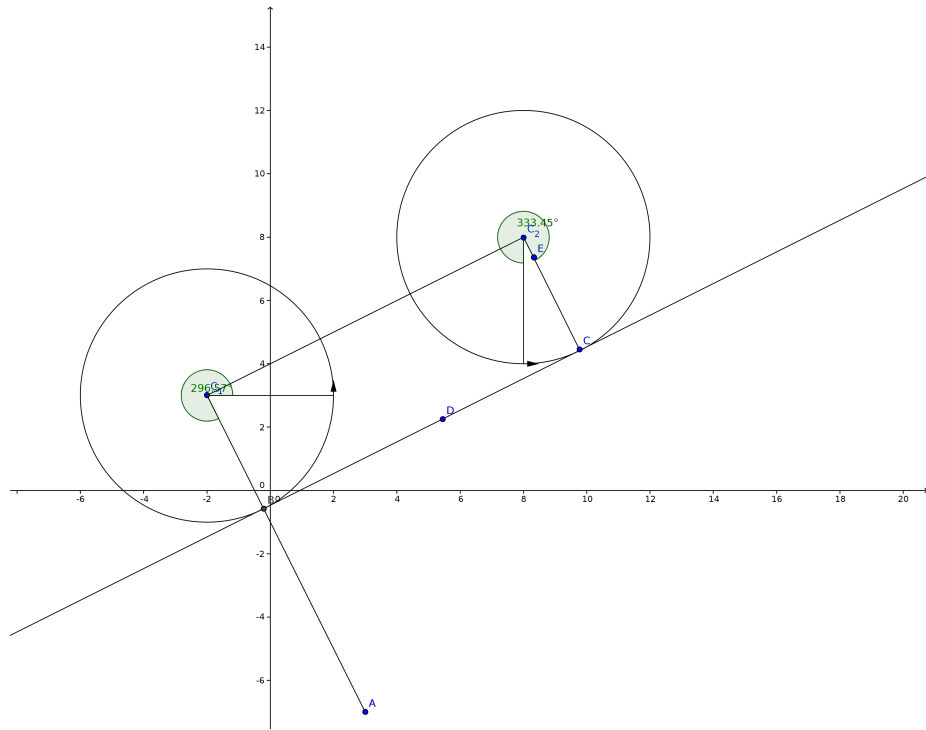
$$U = 2 * r * \pi = 25.13$$

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

$$S = 11.18$$

$$L_2 = \frac{333.45^\circ}{360^\circ} * U = 23.28$$

$$LSL = 55.12$$



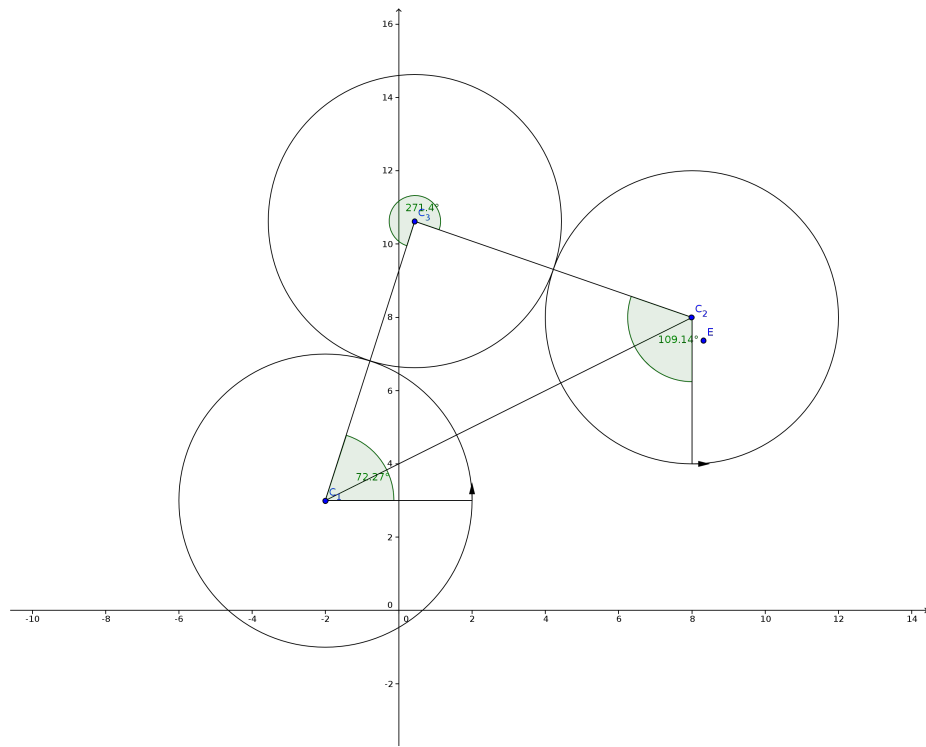
LRL

$$L_1 = \frac{72.27^\circ}{360^\circ} * U = 5.04$$

$$R = \frac{271.4^\circ}{360^\circ} * U = 18.95$$

$$L_2 = \frac{109.14^\circ}{360^\circ} * U = 7.62$$

$$LRL = 31.61$$



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 **Straight** action.

