

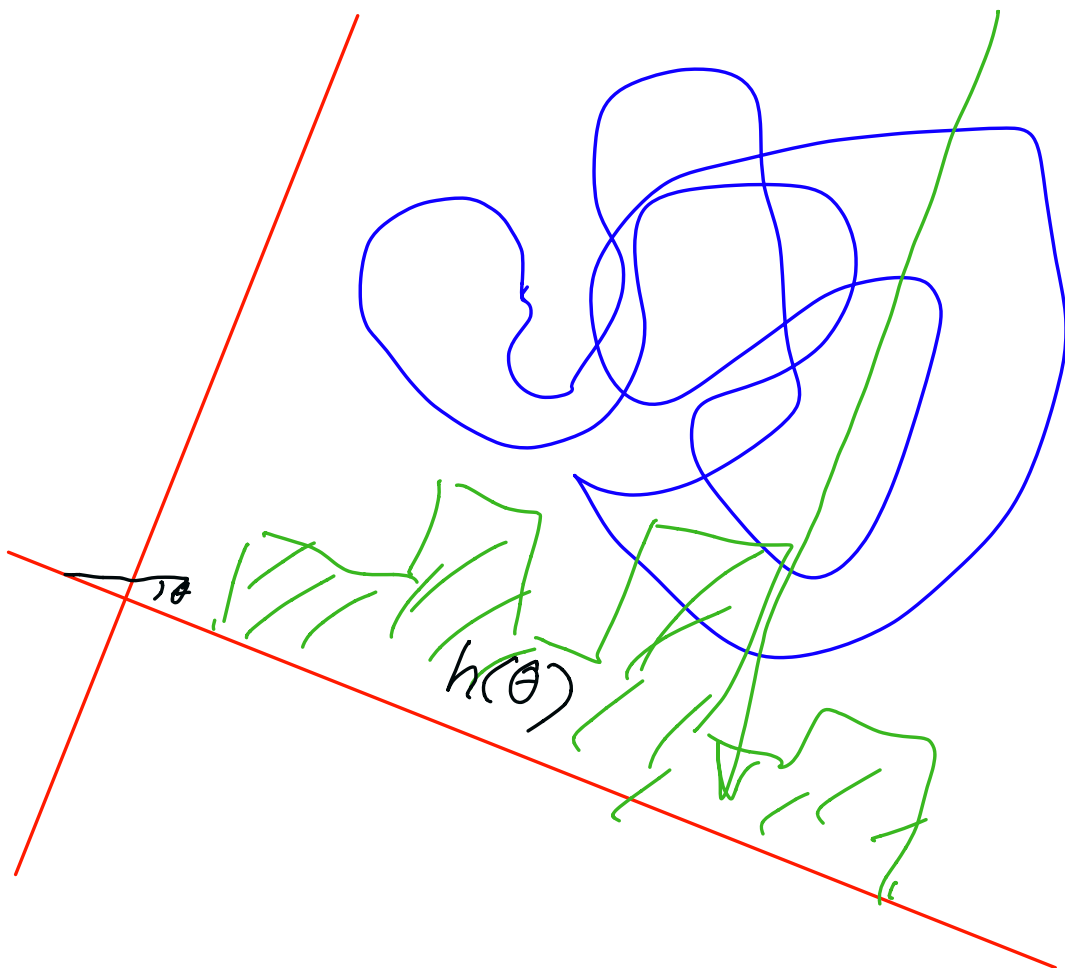
Brouwer's fixed point theorem

- ⑥ Education
- ⑤ Applied
- ③ Actuarial
- ② The
- ① Econ

① comp. Sci.

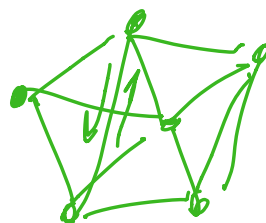
① undecidable

3 - 4



$$C^{-1} \int_0^{2\pi} h(\theta) d\theta = \underline{\hspace{2cm}}$$

- Area
- length *
- Slopes
- ?



$X, \underline{\rho(x,y)} \quad x, y \in X$

- ① $\rho(x,y) \geq 0, = 0 \Leftrightarrow x=y$
- ② $\rho(x,y) = \rho(y,x)$
- ③ $\rho(x,z) \leq \rho(x,y) + \rho(y,z)$

\mathbb{R}^2 (x_1, x_2)

$$|x - y| = \sqrt{(x_1 - y_1)^2 + (x_2 - y_2)^2}$$

$$|x - y| = |y - x|$$
