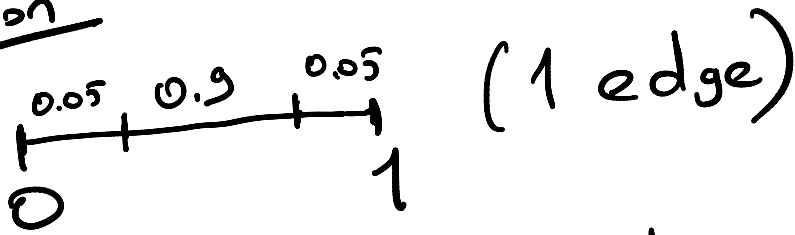


## Review 2.2 Solution

4 December 2023 Monday 01:48

Solution



if a point is not in the boundary region, every  $x_j$  should be inside of  $\text{---}$  region.

which means the proportion of the points in a hypercube of dimension 50 are in the boundary is

$$= 1 - (0.9)^d \quad \begin{array}{l} \downarrow \\ \text{number of} \\ \text{dimensions} \end{array}$$
$$= 1 - (0.9)^{50}$$

$$\approx 0.9948 \approx 0.995$$