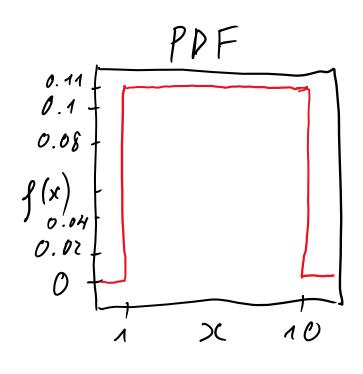
$$\frac{x}{f(x)} = \frac{1}{1.1} = \frac{1}{3.456...(10)}$$

$$S(x) = \frac{1}{b-a} = \frac{1}{10-1} = \frac{1}{9} = 0$$



100 points let [1,10] 1000

$$plot(x, f(x))$$

$$\{1,10\}$$

2) 3 points on the circumference of the circle lie in the same semicircle.

fin down one et the point, there will be 2 point left.

There are 3 ways to sleet the first point.

There are ((3,2) ways to select 2 points out of 3 points.

Prob. of the 2 nd point to lie in the same semicircle; 1/2

Prob. 11 3rd

Probability: $3 \times \frac{1}{2} \times \frac{1}{2} = \frac{3}{2^2} = \frac{3}{2^3} = \frac{3}{4}$

n points: $\frac{n}{2^{n-1}}$

* Use np. random. uniform to randomly
select 3 points on the circumference.

n = 100000 (total experiments)

(+ Chech if those 3 points lie in the

same semicircle

-> count = count + 1

Prob: count