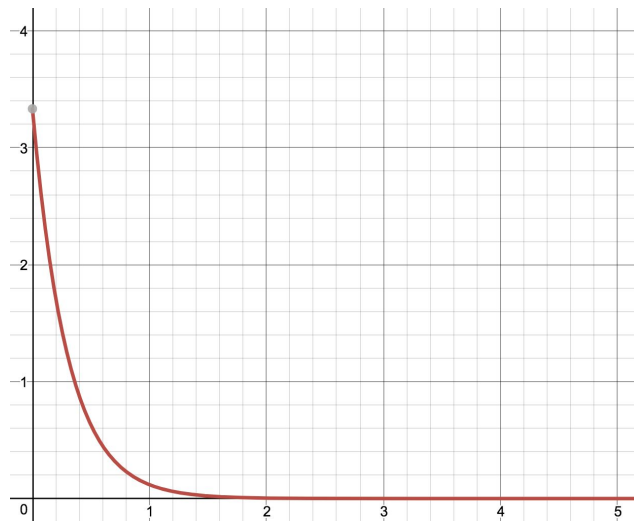1. Create a probability distribution:

exponential distribution
P(x | s) = 1/Z * exp(-1/s)
where Z=s, s=0.3, x∈(0,∞)
This is a skewed distribution
The function is at mode when x=0
The probability of x is between 0 and 1 is 0.964

$$\int_0^1 \frac{\exp\left(-\frac{x}{0.3}\right)}{0.3}\, dx = 0.964326$$

2. Python

```python
import scipy.stats as sta

print ("pdf is:", sta.expon.pdf(0.3))
print ("cdf is:", sta.expon.cdf(0.3))
print ("ppf is:", sta.expon.ppf(0.3))
```

pdf is: 0.7408182206817179
cdf is: 0.2591817793182821
ppf is: 0.35667494393873245