import numpy as np

Binomial

#exact 4 correct answer out of 12 questions given that each question has 5 option and one sum(np.random.binomial(12,0.2,20000)==4)/20000

0.1319

#equal or less than 4 correct answer
#20000 - number of trials of the model
sum(np.random.binomial(12,0.2,20000)<=4)/20000</pre>

0.92635

#9 wells are explored and drilled. success rate -0.1. Case : All 9 fails sum(np.random.binomial(9,0.1,20000)==0)/20000

0.39275

Poisson

#12 cars crossing bridge at a time on average. Case : 17 or more cars crossing the bridge sum(np.random.poisson(12,5000)>=17)/5000

0.1032

Uniform

```
#a=0,b=20; Case : greater than 5
sum(np.random.uniform(0,20,5000)>5)/5000
```

0.7466

#a=0,b=20; Case : lesser than 5
sum(np.random.uniform(0,20,5000)<5)/5000</pre>

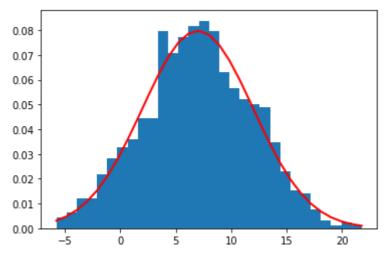
0.2522

s=np.random.uniform(-1,0,500)

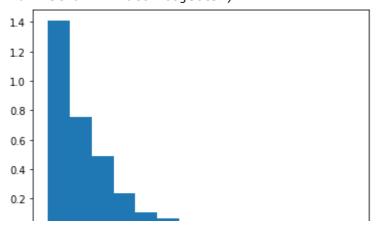
np.all(s >= 0)

False

Normal Distributions



Exponential



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