

Боглого 1.1

b) $P(\emptyset) = 0$

$\Omega - \Omega = \emptyset$

$\Omega = \Omega + \emptyset \quad P(\Omega) = P(\Omega) + P(\emptyset)$

Ахшил 2 $P(\Omega) = 1$

$1 = 1 + P(\emptyset)$

$P(\emptyset) = 1 - 1$

$P(\emptyset) = 0$

Боглого 1.2

R хэл

a) $\text{Poisson} = \text{dpois}(x, \text{lambda}, \text{log} = \text{FALSE})$

Хүмүү: $\text{dpois}(13, \text{lambda} = 12, \text{log} = \text{FALSE}) = 0.1055704$

б) $\text{Geometr} = \text{dgeom}(x, \text{prob}, \text{log} = \text{FALSE})$

Хүмүү: $\text{dgeom}(1, 0.25, \text{log} = \text{FALSE}) = 0.1875$

Боглого 1.7

I_A гэж cris санамсаргүй хувьцаа нь зөвхөн

0 ба 1 гэх үгүүд гээр 0-с ялгаатай

нягттай. Харин үүнээс дүх үг гээр нягт нь

0-ийн тэнгүү байдаг.

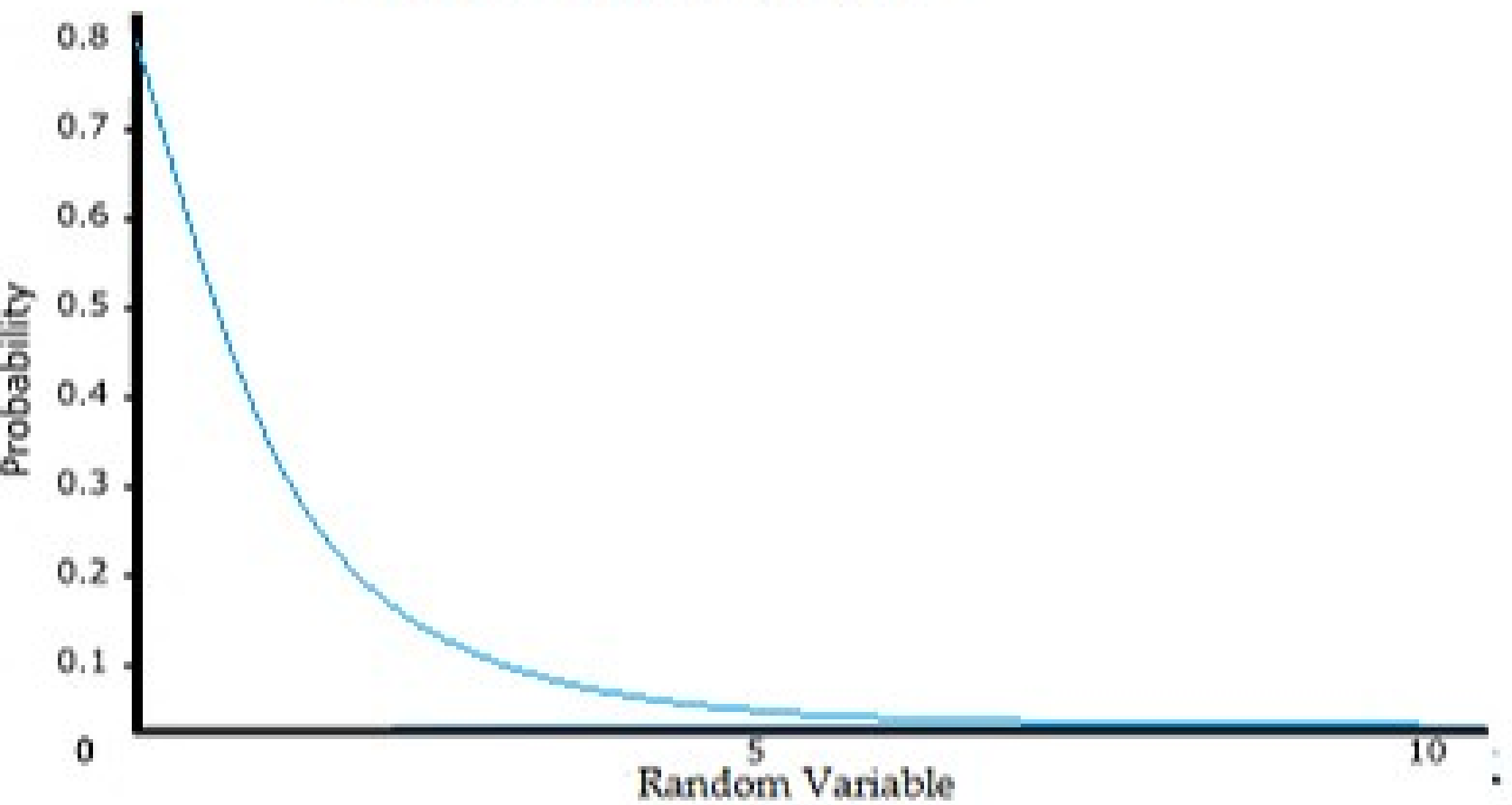
$A = [0, 25] \cup (30, 45]$

$I_A(w) = \begin{cases} 20 & w \in A \\ 10 & w \notin A \end{cases}$

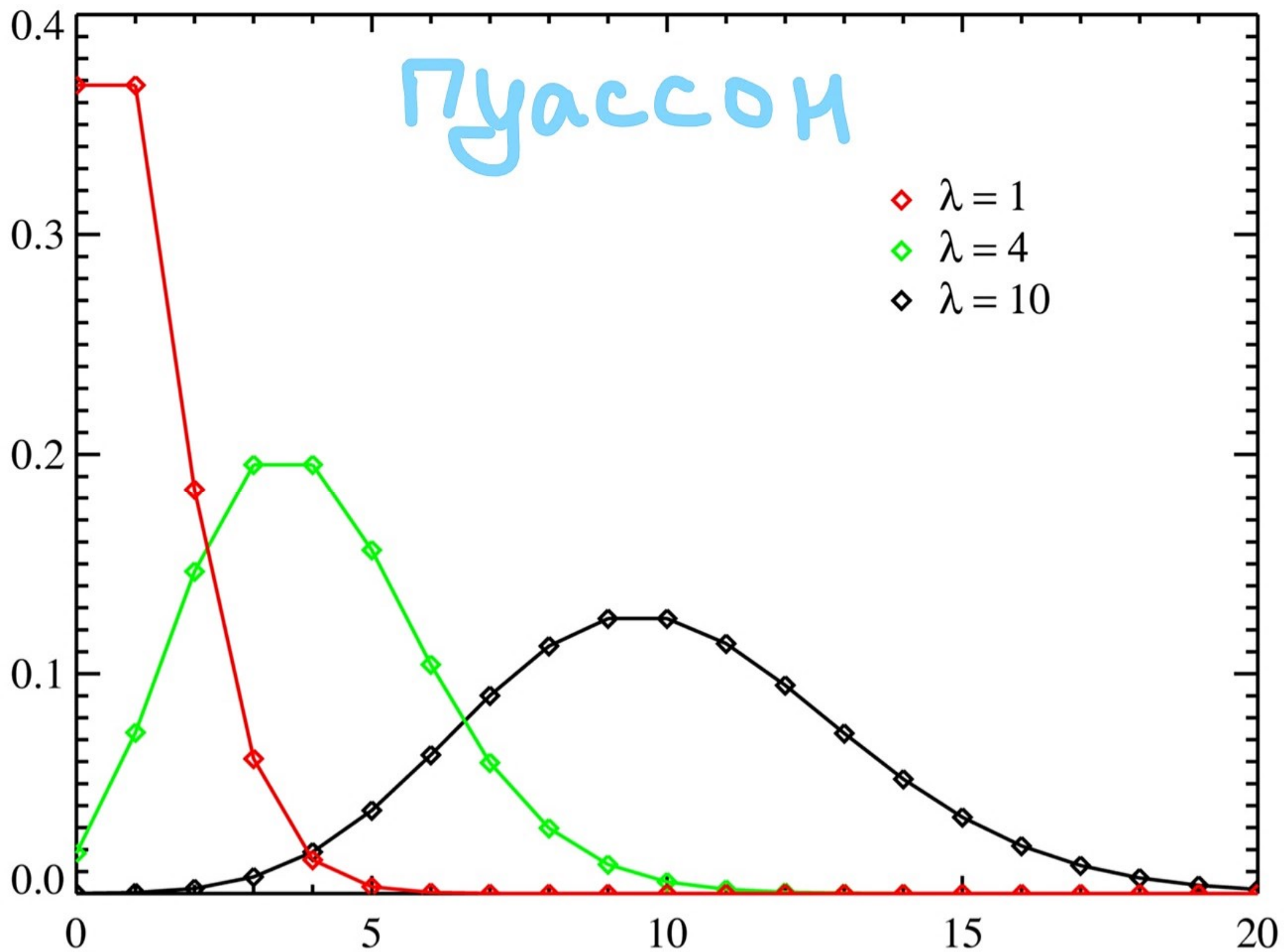
$P(I_A = 20) = P(w \in A) = 0$


$P(I_A = 10) = P(w \notin A) = 0$

Geometric Distribution for $p=0.8$




Пуассон





```
> dpois(13, lambda=12, log=FALSE)
[1] 0.1055704
>
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```



```
> dgeom(1, 0.25, log=FALSE)
[1] 0.1875
>
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```