SPAB assignment 09 task 9.3

given
global average sequencing depth 1
local expected "
at any point in genome has gauna dista. with
mean a variance or her point, the actual seq. depth
for a fixed value of x at a specific point, the actual seq. depth
follows a Poisson distr. with mean x

- tasks

compute param. k, B of Janua distr.

(rate β , scale $\frac{1}{3}$, shape k)

mean $\mu = h\theta = \frac{1}{3}$ variance $\delta^2 = h\theta^2 = \frac{1}{3}$ c) $h = \mu \beta$ c) $k = \delta^2 \beta^2$ c) $\mu = \delta^2 \beta^2$ c) $\mu = \delta^2 \beta^2$

· specify the resulting genuer-Poisson mixture distr.

=> h= 13= 1 52 = 62

P[X=d] = So Gama (A) P, [X=d] dh

h=62, B=62 So Gama

h=62, B=62, B=62, B=62 So Gama

h=62, B=62, B=62, B=62, B=62, B=62, B=62,