$$\int_{0}^{3} k x dx = k \frac{x^{2}}{2} \Big|_{0}^{3} = \frac{9}{2} k = 1 \implies k = \frac{2}{9}$$

Entonien:

$$\frac{x^2}{9}\Big|_{0}^{x_1} = \frac{x_1^2}{9} = 0.1 \implies x_1 = \sqrt{\frac{9}{10}}$$

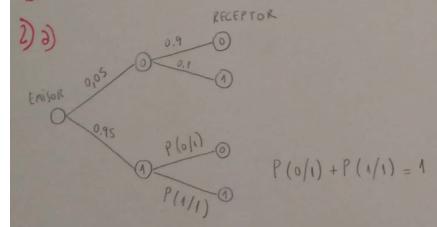
$$F_{\times}(\times) = \frac{\times^2}{9} I \left(0 \le \times \le 3\right)$$

Bur x = h(M):

$$u = \frac{x^2}{9} \Rightarrow x = h(u) = 3 \sqrt{u}$$

Simulation our Colab.

D Simulation ver labet.



Apher Teo de Boyn

$$P(0/0) = 0,99 = 0,9.0,05$$

$$0,9.0,05 + 0,95.P(0/1)$$

Despejande que que:

hugo, le probe que el receptor indique 1 mondo se emitió em 1 en: P(1/1) = 1 - P(0/1) = 2089/2090 = 0,9995

banus ver blab.

3) X = timpo u rejoro por froiture de codere (diar)

m = 36 pocientes

X = 33 dian

5 = 8,5 dian

IC = 0,95

No ranger la distribución de la sociable, busso em IC aprotimo do por TCL:

$$Z = \frac{\overline{X} - M}{5/\overline{m}} \sim \mathcal{N}(0,1)$$

Célula ver Colob.

4) Ver lolot.