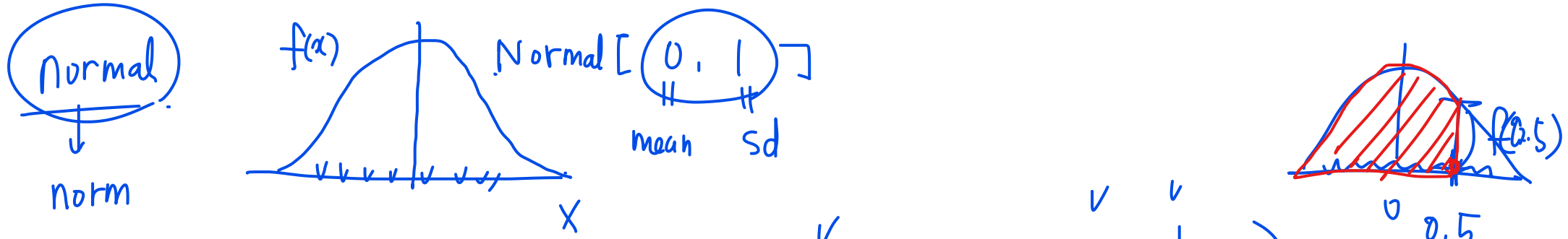


rnorm (100 , mean = 0, sd = 1)

# of random number

rnorm (100 , 0 , 1)

dnorm (x0 , mean = 0, sd = 1)

f(x)

f(x0)

dnorm (0.5 , 0 , 1)

f(0.5)

pnorm (0.5 , 0 , 1)

P[X ≤ 0.5]

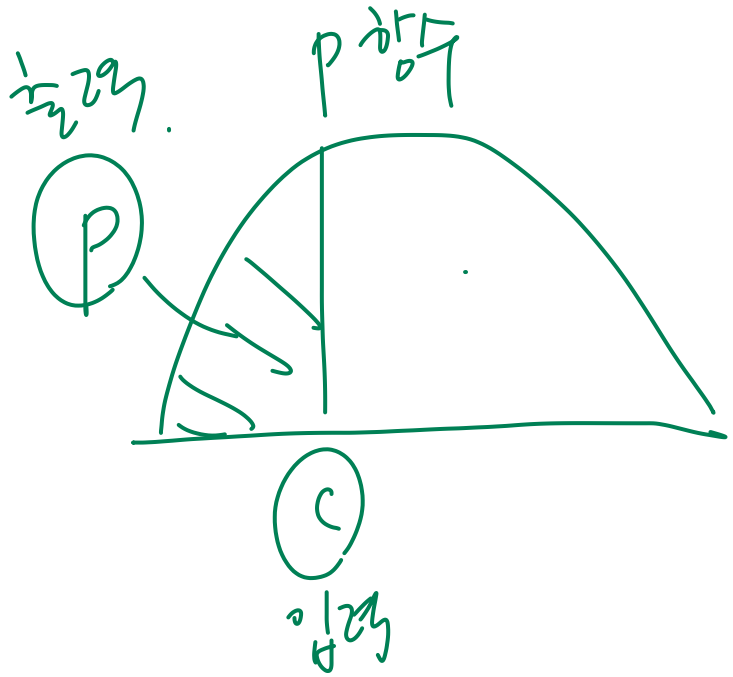
pnorm (x0 , mean = 0, sd = 1)

P[X ≤ x0] = p0

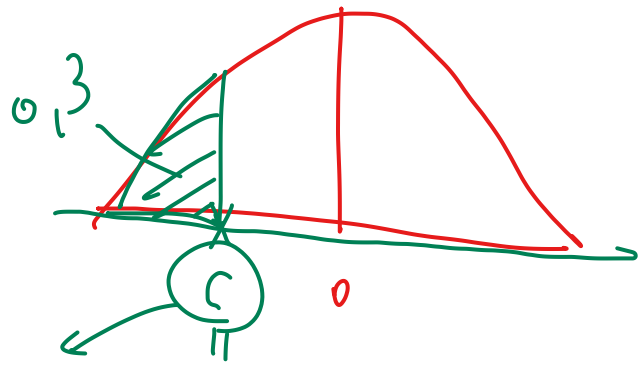
p0

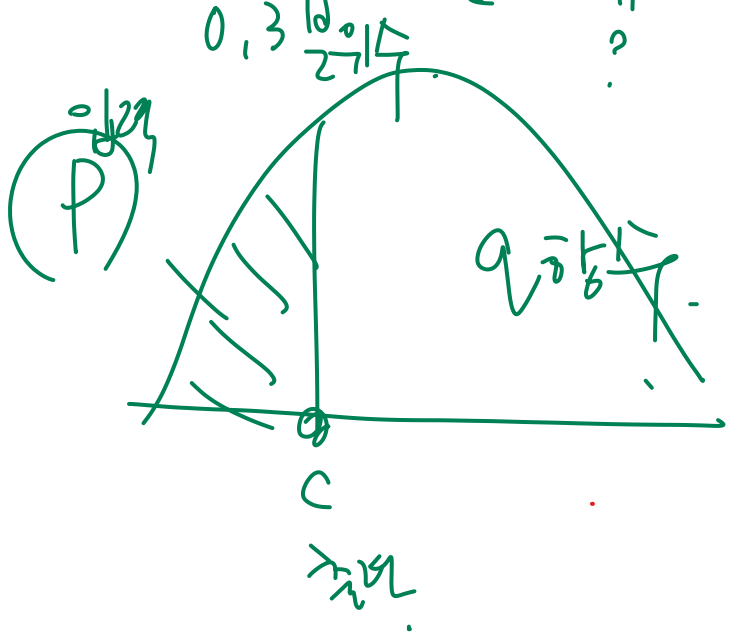
qnorm(p_0 , mean = 0, sd = 1) → 0 ~ 1 누적확률.

$P[X \leq c] = p_0$ 인 c.



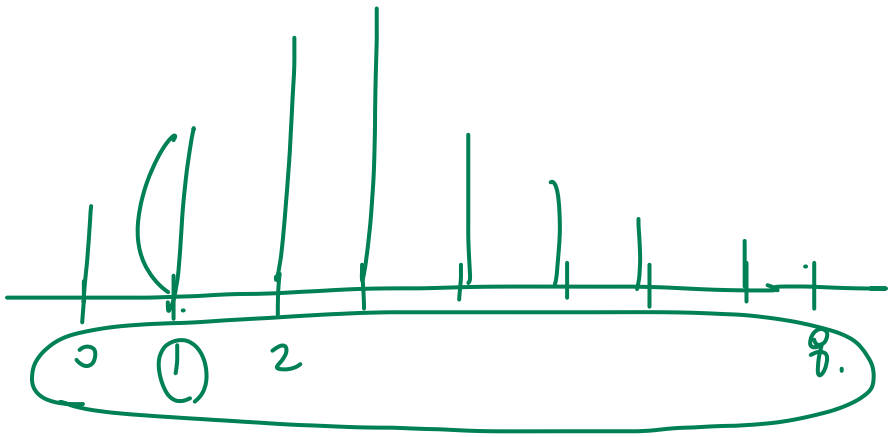
qnorm(0.3, 0, 1)





$P[X \leq c] = 0.3$

$X \sim Bin[8, 0.3]$



$P[X=1] \quad {}^{8}C_1 \, 0.3^1 \, 0.7^7$

rbinom (5, size = 8, prob = 0.3)

2 3 1 4 2

dbinom (1 , size = 8, prob = 0.3)

f(x)
pmf

$f(1) = P[X=1]$

pbinom (1 , 8 , 0.3)

lower — F

$P[X \leq 1] = f(0) + f(1)$

$P[X > 7]$

qbinom (0.4 , 8 , 0.3)

$P[X \leq C] \geq 0.4$

min.