Идея статистического вывода

$M = 20$

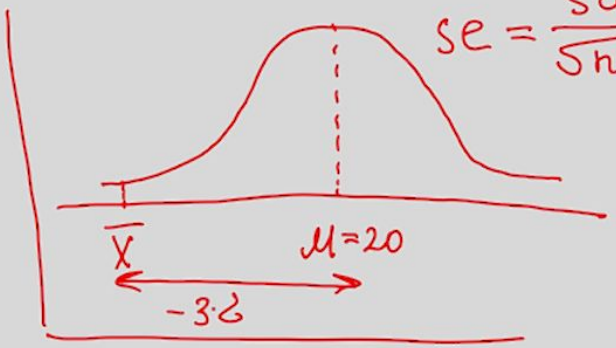
$N = 64$

$\bar{X} = 18{,}5$

$Sd = 4$

$H_0 \quad \mu_{нп} = 20$

$H_1 \quad \mu_{нп} \neq 20$



$$se = \frac{sd}{\sqrt{n}} = \frac{4}{\sqrt{64}} = 0{,}5$$

$$z = \frac{\bar{X} - \mu}{se} = \frac{18{,}5 - 20}{0{,}5} = -3$$

Distribution Calculator

spark.rstudio.com/minebocek/dist_calc/

Search

Distribution Calculator

Distribution:

Normal

Mean

−50 0 50

Standard deviation

1 30

Model:

P(X < a or X > b)

Find Area:

Both Tails

a

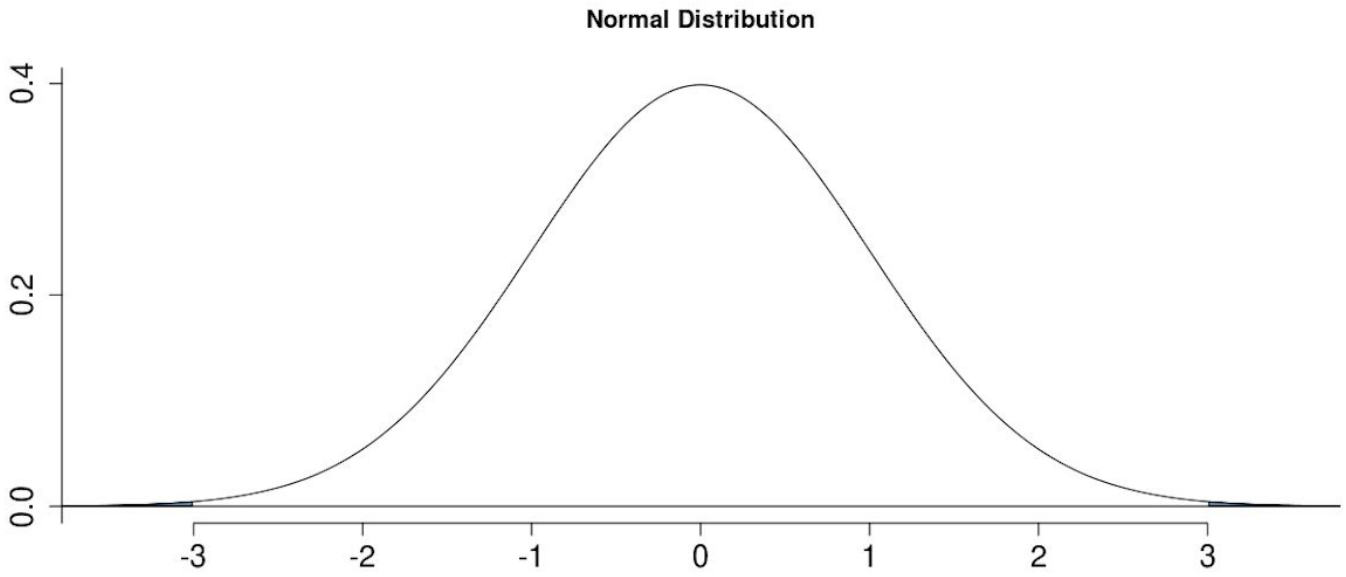
−4 −3 4

b

−4 3 4

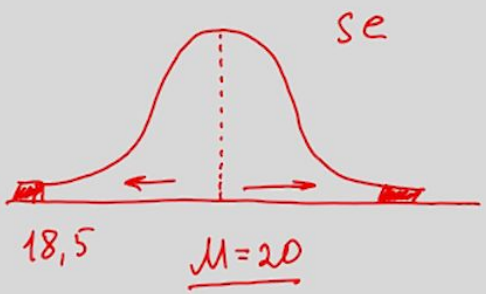
Rate this app!

View code



P(X < -3 or X > 3) = 0.0027

Идея статистического вывода



$p = 0{,}003$

H_0: $M_{нп} = 20$ $p > 0{,}05$

H_1: $M_{нп} \neq 20$ $p < 0{,}05$!!!