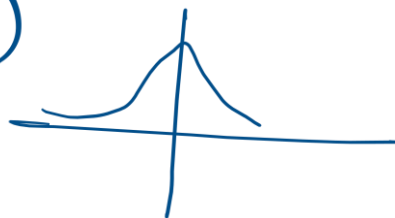


Today

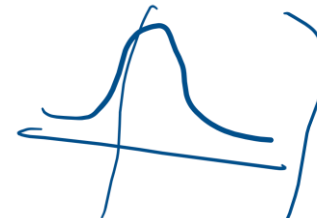
①



+ Python

②

How to read Table of



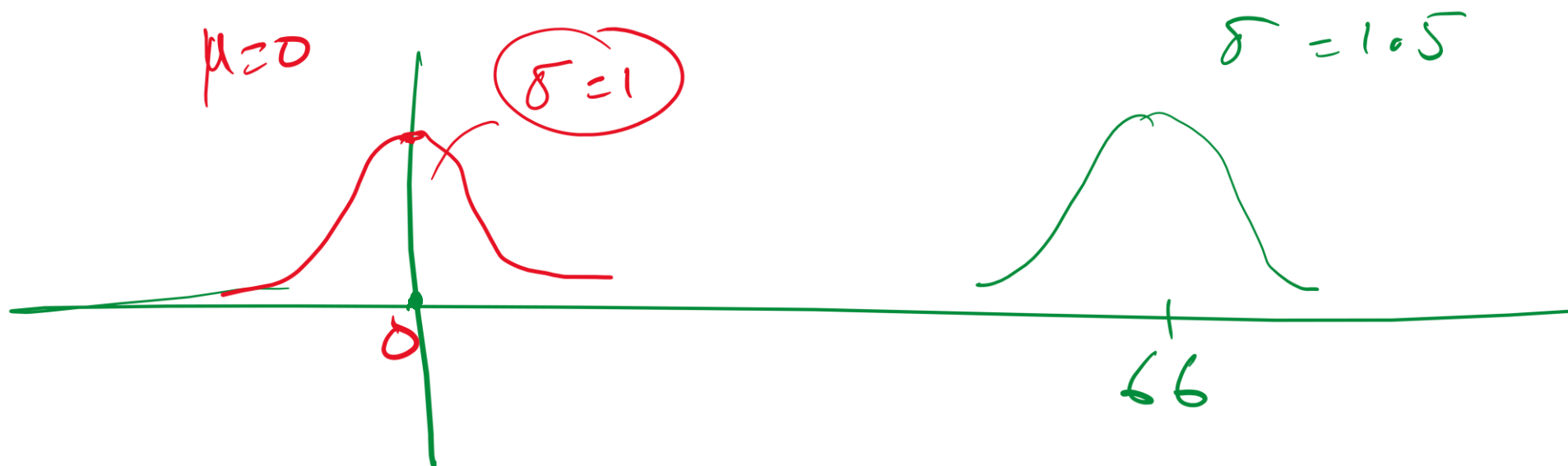
③

Joint

New Topic

$$p(64 < w < 67) =$$

$$\int_{64}^{67} \frac{1}{\sqrt{2\pi} (1.5)} e^{-\frac{(x-66)^2}{2(1.5)^2}} dx$$



$$\int_{-\infty}^{(1)} f(x) dx = \text{[Diagram of a closed loop in the complex plane]}$$

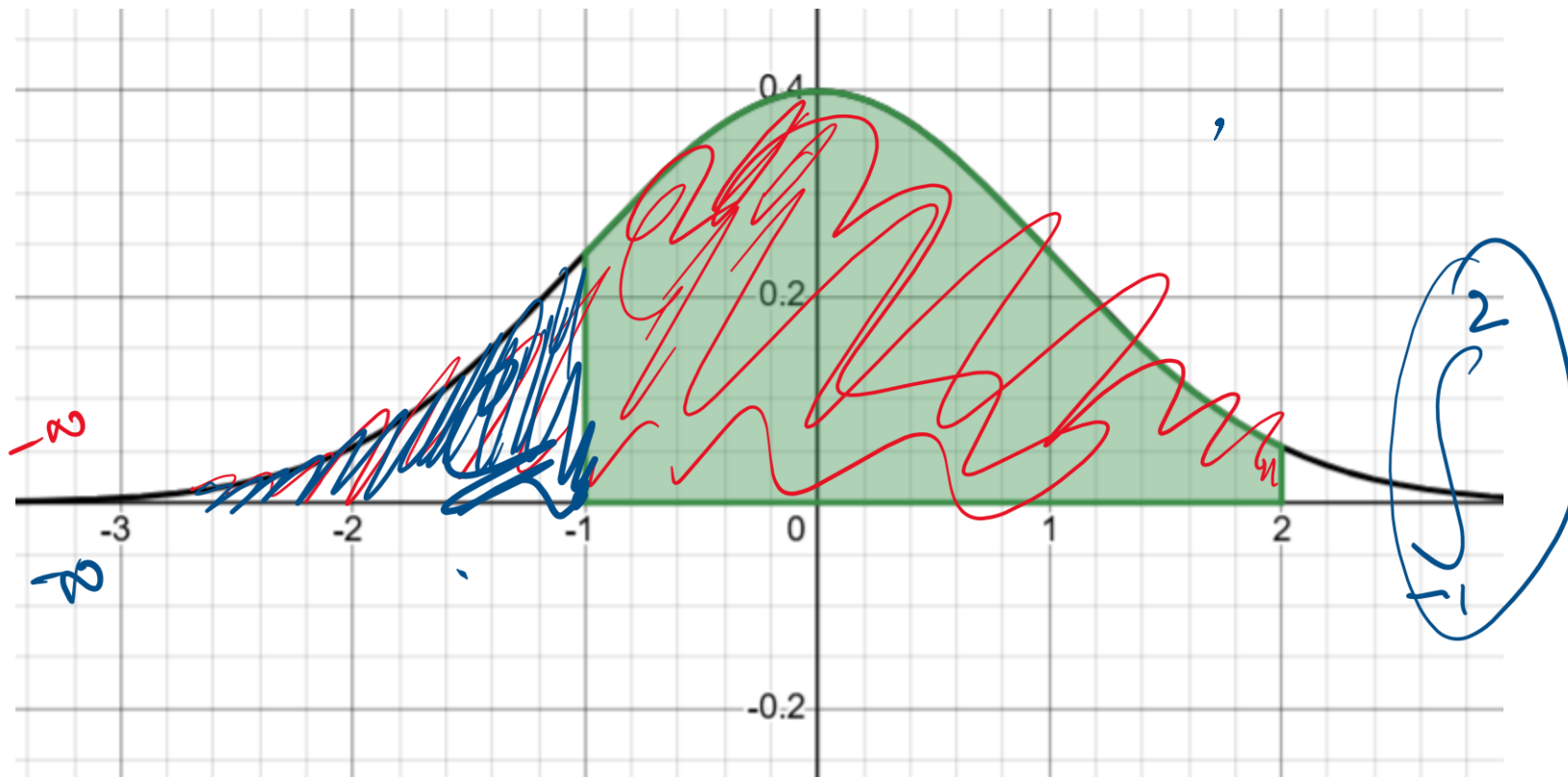


Table for (2)

Table for (-1)

= Red - Blue

A factory produces metal rods, and the lengths of the rods follow a normal distribution with a mean of 100 cm and a standard deviation of 2.5 cm. The rods are classified as follows:

- Acceptable: Length between 97 cm and 103 cm.

- Short: Length less than 97 cm.

- Long: Length greater than 103 cm.

$$\frac{97 - 100}{2.5} = -1.2$$

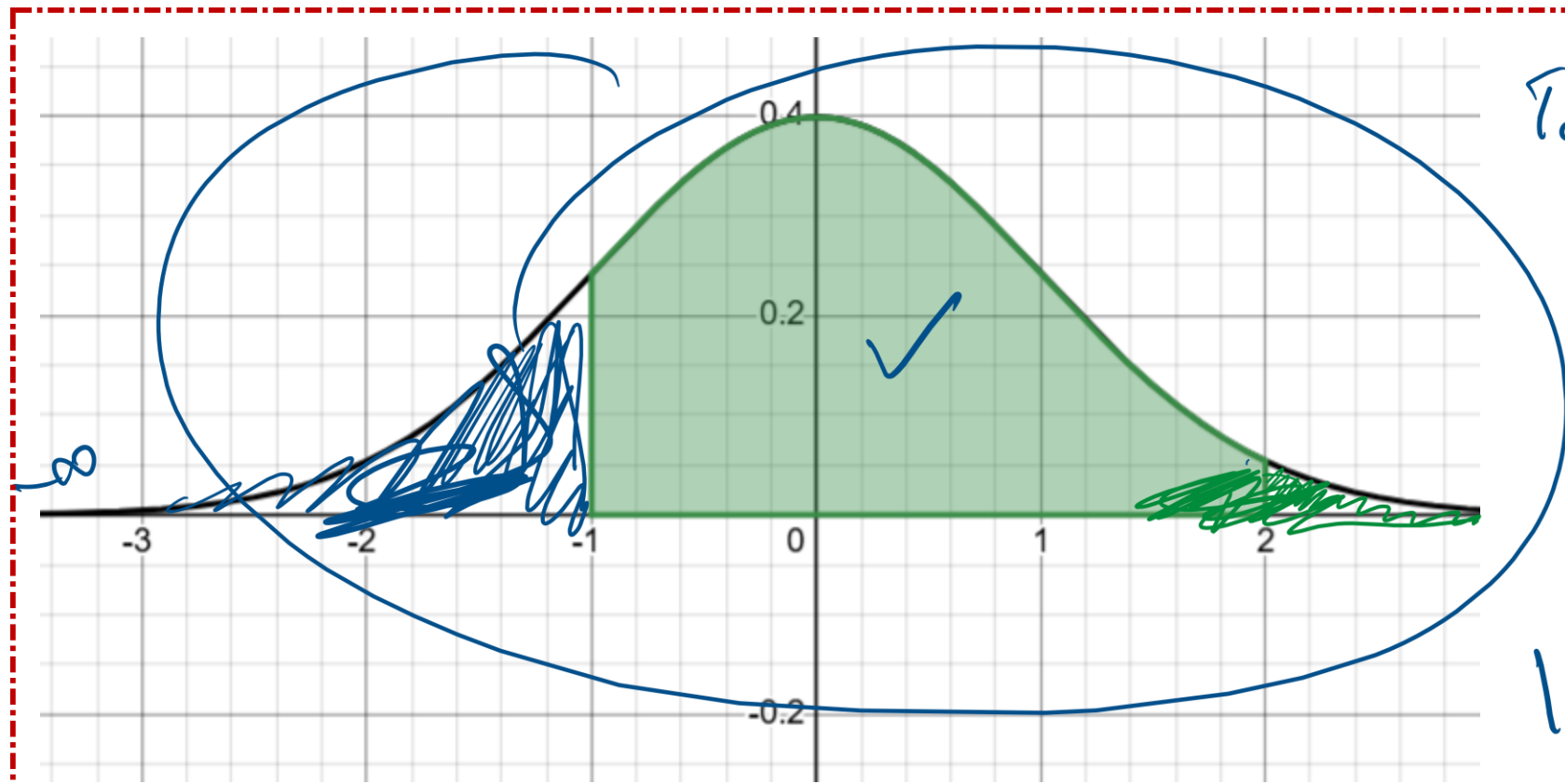
$$\frac{103 - 100}{2.5} = 1.2$$

$$0.7698$$

a) What is the probability that a rod is acceptable?

b) If a batch contains 1000 rods, how many rods would you expect to be short, long, and acceptable?

$$.8849 - .1151 = 0.7698$$

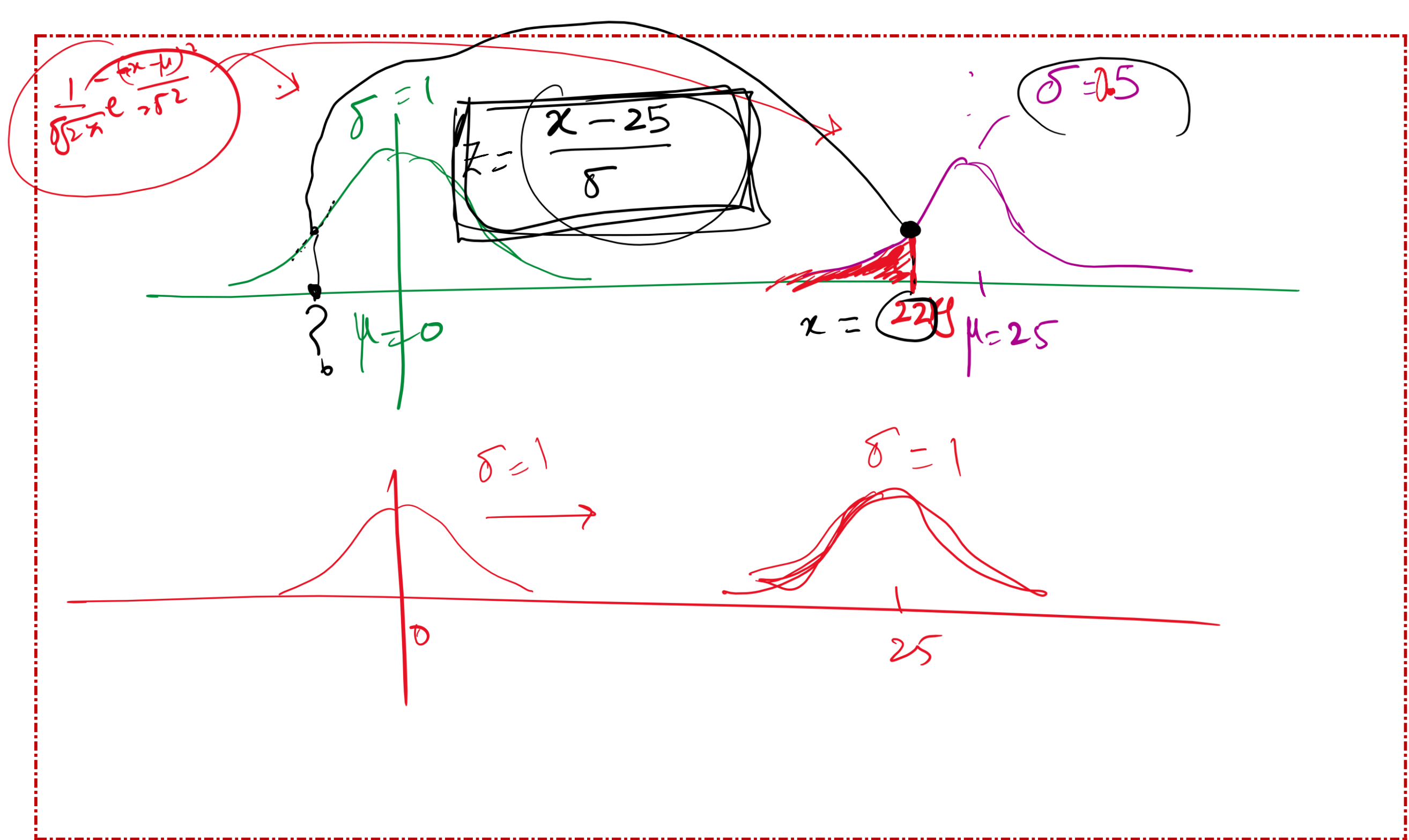


$\tau_{che} = -1$

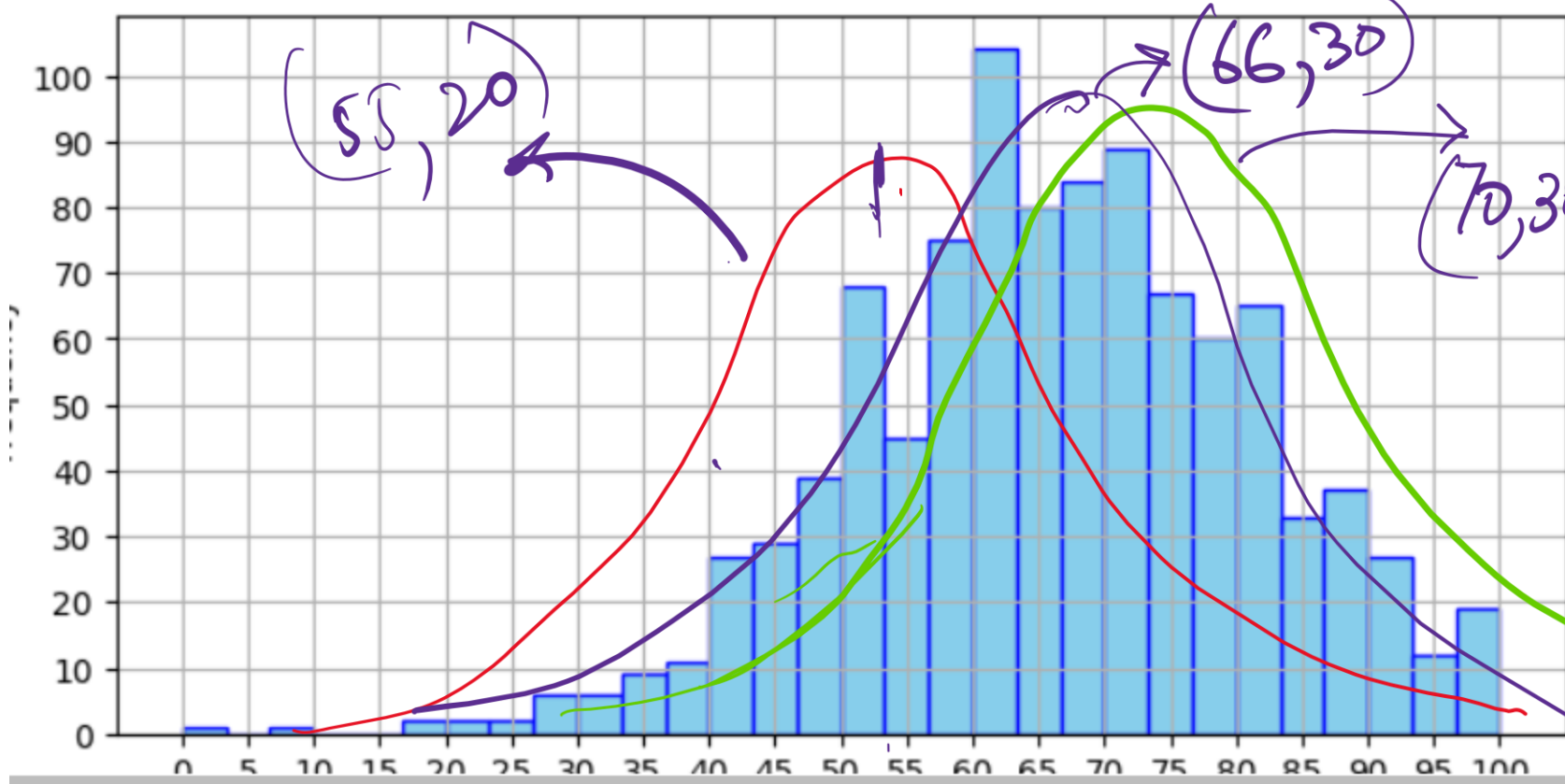
$\Sigma = 1$

$\int_{-\infty}^{\infty} = 1$

1 — Blue = Green



Distribution of Math Scores



$$\frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

$\mu, \sigma$

$\mu \rightarrow 66$   
 $\sigma \rightarrow 30$

$\rightarrow$  Math (blue curve)



