

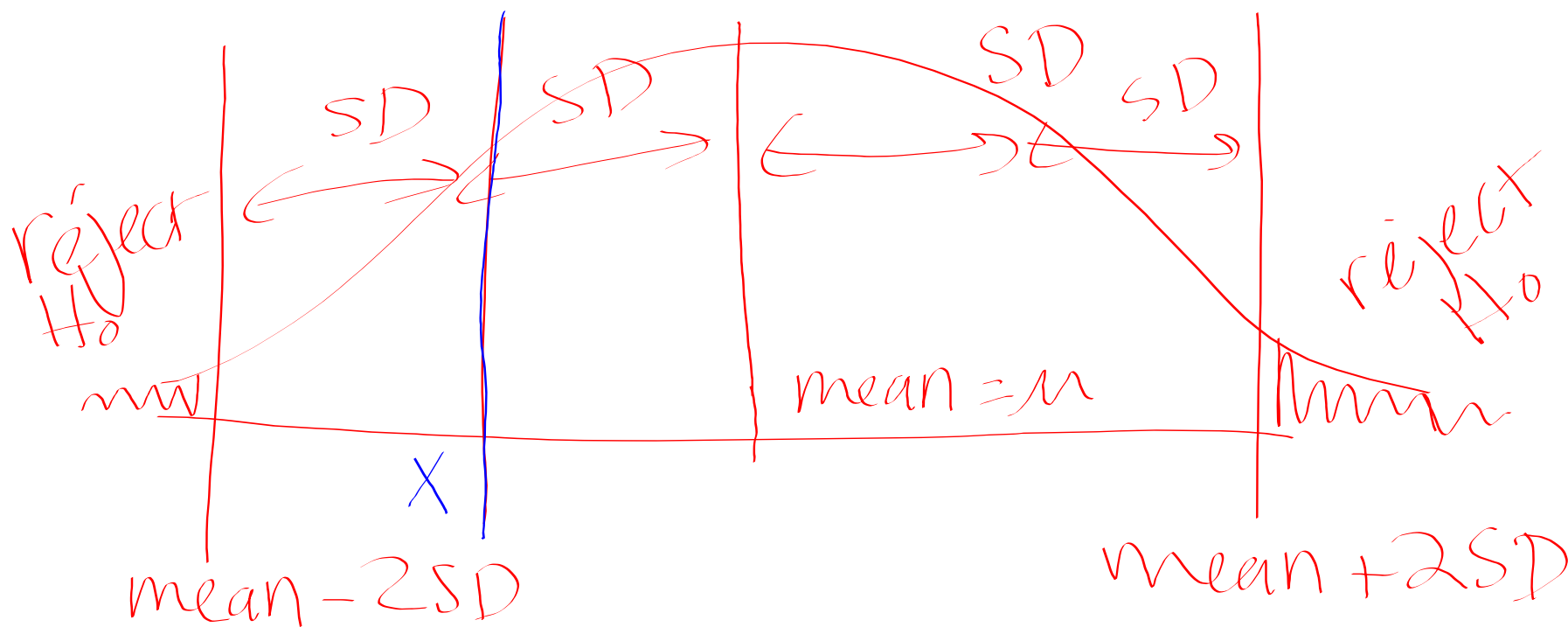
μ = population mean

\bar{X} = sample mean

σ = population SD

S = sample SD

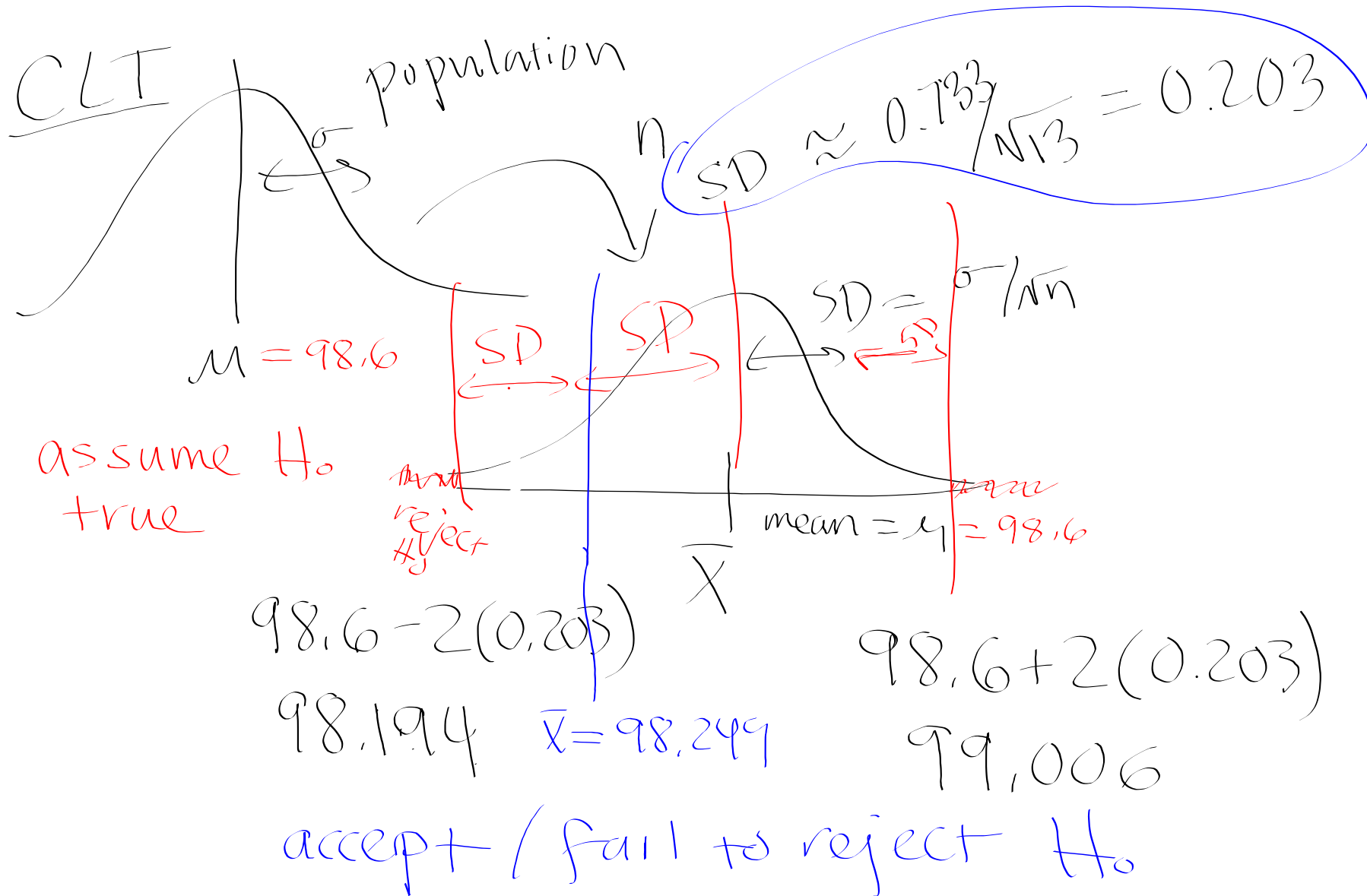
n = sample size



$$z = \frac{\bar{X} - \mu}{SD} = \frac{\bar{X} - \mu}{\sigma/\sqrt{n}}$$

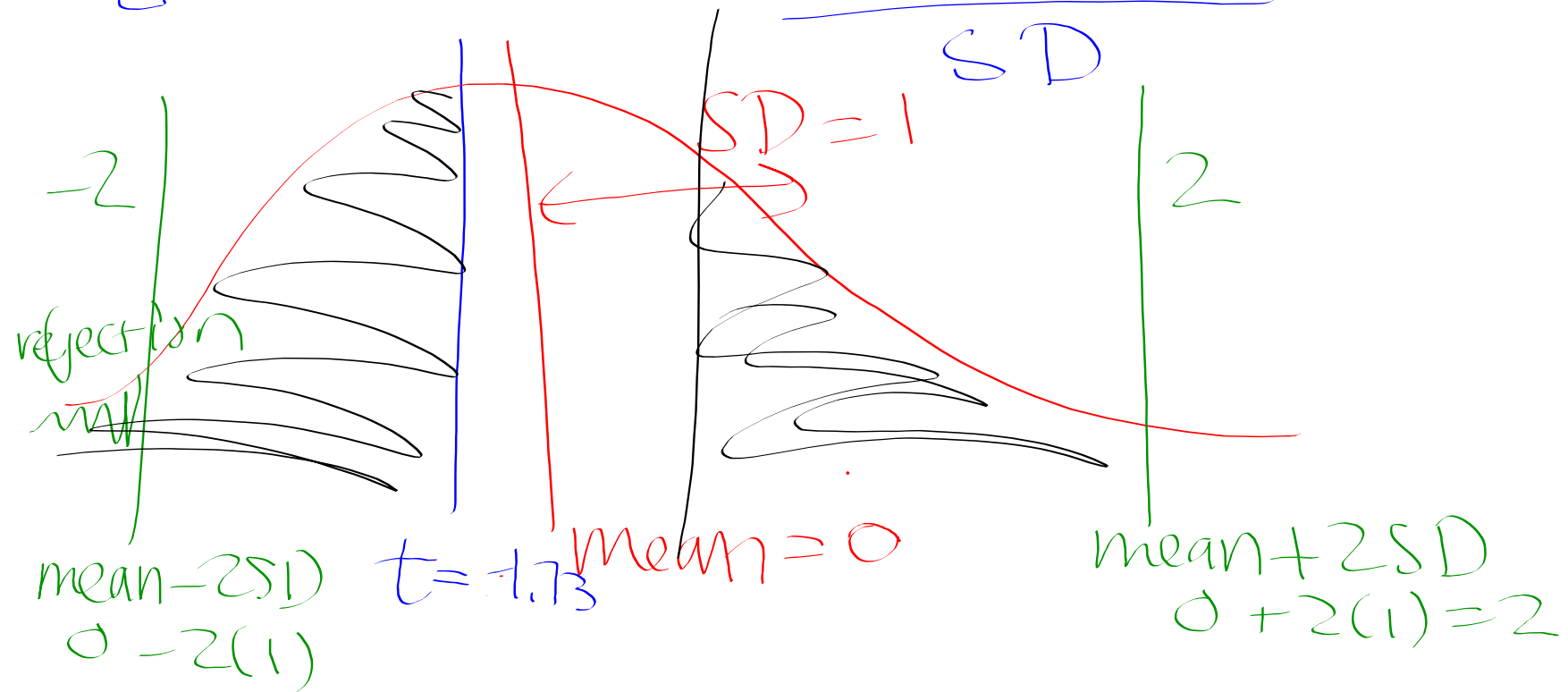
try $t = \frac{\bar{X} - \mu}{S/\sqrt{n}}$

$$t = \frac{98.249 - 98.6}{0.203}$$
$$= -1.73$$



Standard Normal

$$z\text{-score} = \frac{X - \text{mean}}{\text{SD}}$$



Carl is
correct

$$H_0: \mu = 98.6$$

always "="
for H_0

Carl is
incorrect

$$\mu \neq 98.6$$

matches
question