Solution

b)
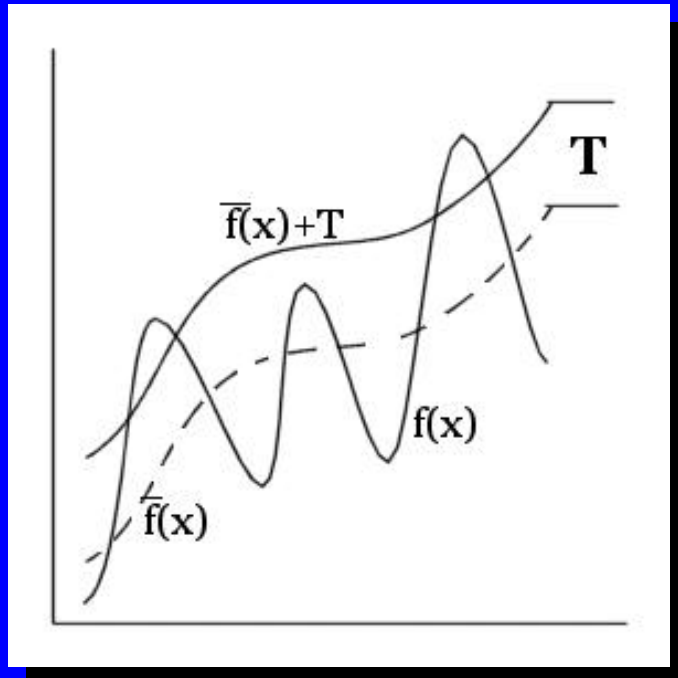
$$g(x) = 1 \quad \text{if} \quad f(x) \geq \overline{f}(x) + T$$

Equivalent to:

$$\underbrace{f(x) - \overline{f}(x)}_{\text{Laplace}} \geq +T$$