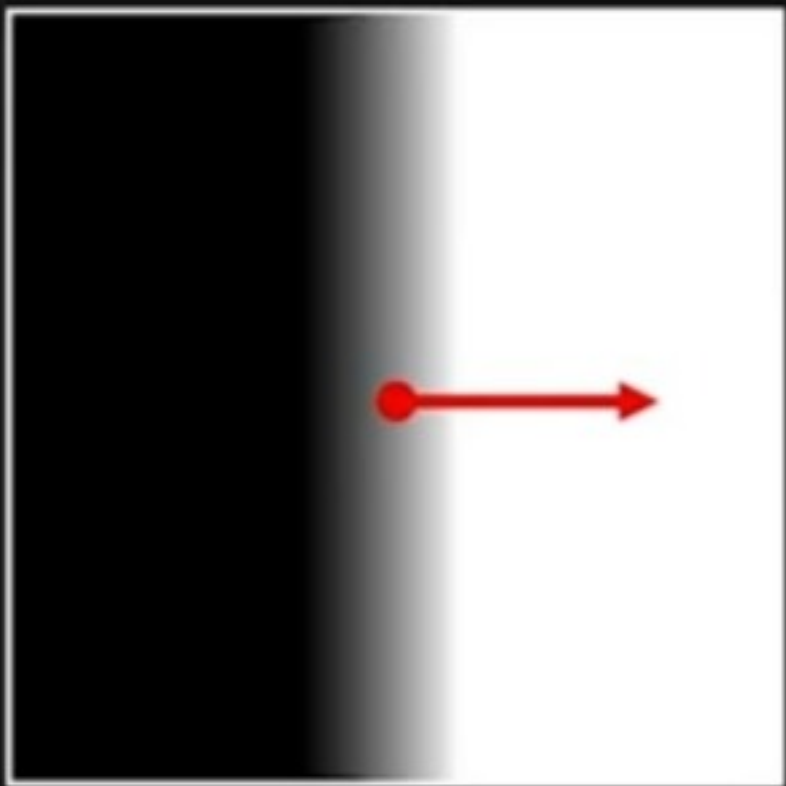


One Dimensional:

- From the image draw a graph ,
with Intensity on Y-axis.



$f(x)$:



Edge

Edge

$f(x)$:



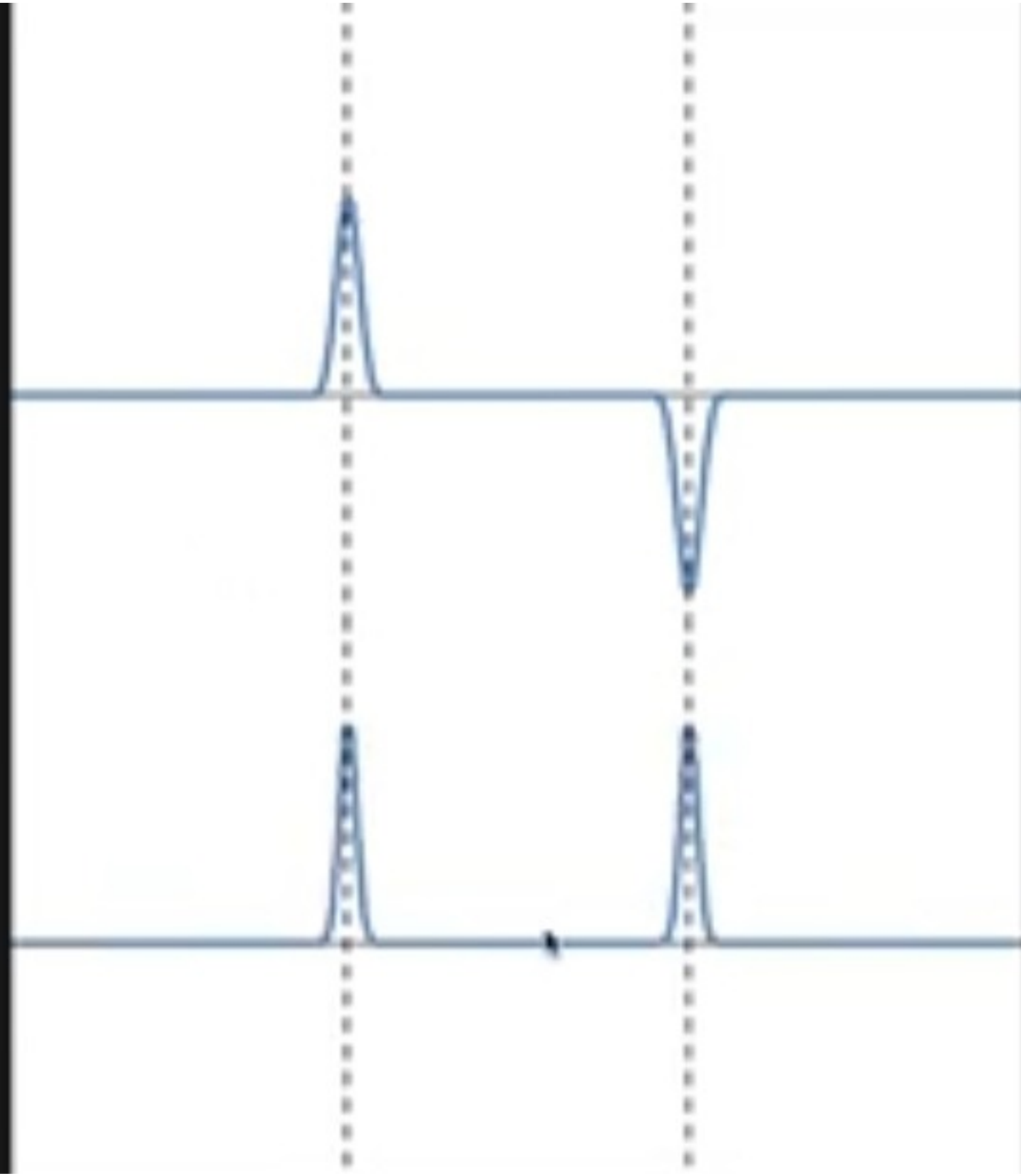
Edge

Edge

- From Calculus: The first derivative of a 1D function represents the change in the function

$$\frac{\partial f}{\partial x}$$

$$\left| \frac{\partial f}{\partial x} \right|$$



- The peaks of the graph represent the **LOCATION** of the Edge and the height represents the **STRENGTH** of the edge

