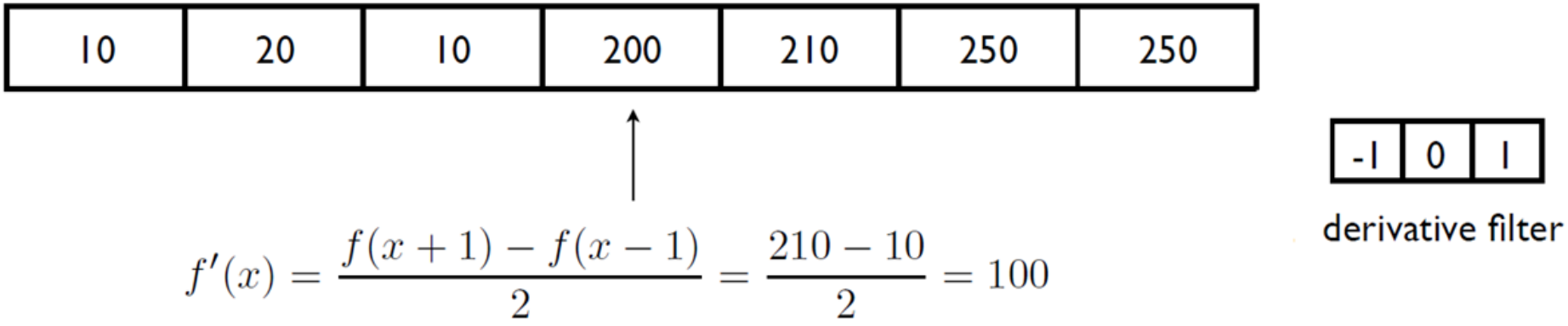
$$f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$$

(a) Derivative of *f(x)*

$$f'(x) = \lim_{h \to 0} \frac{f(x+0.5h) - f(x-0.5h)}{h}$$

(b) Modified form of the derivative of *f(x)*



(c) Example derivative for a pixel, and derivative filter