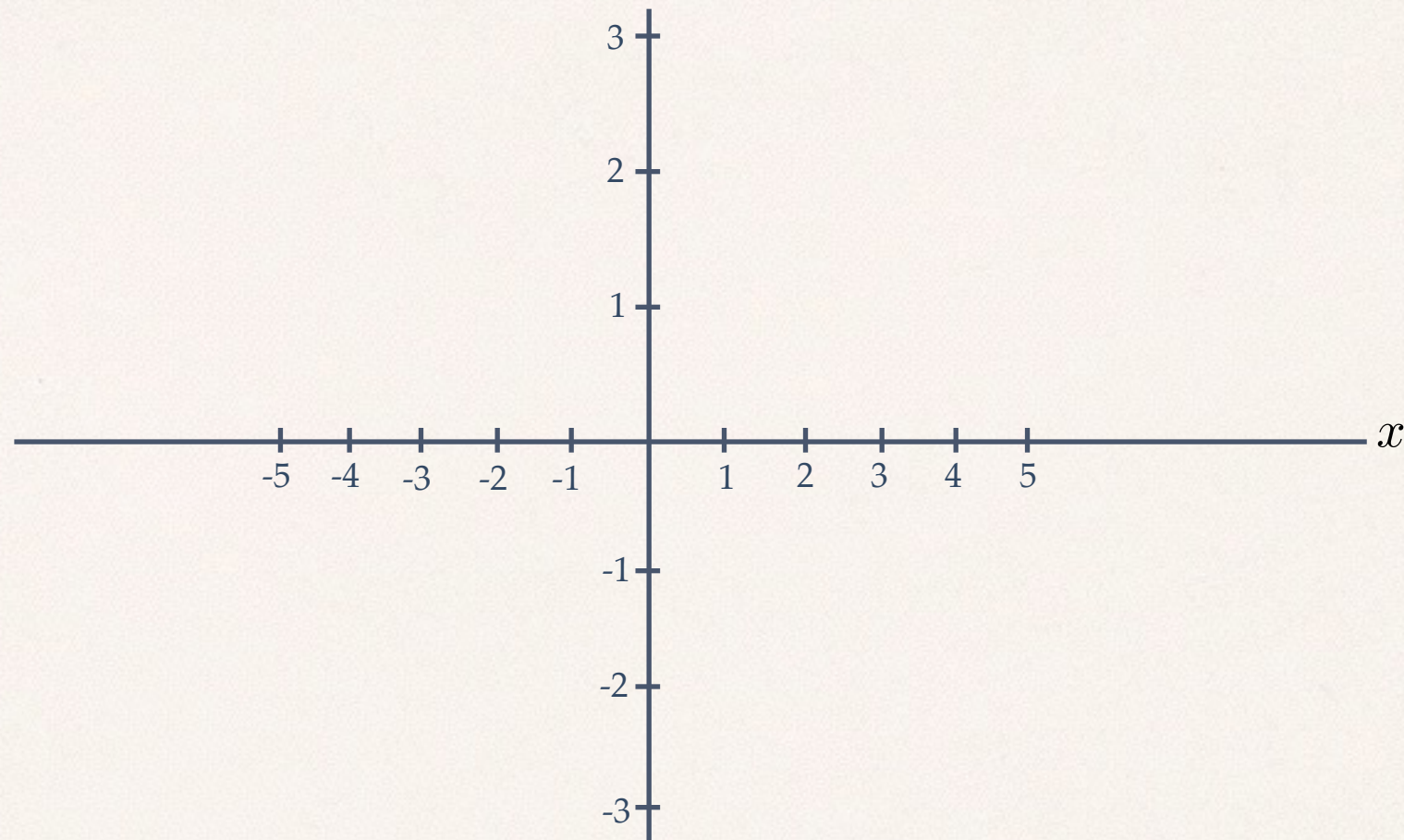


# Graphical Convolution: Example 1

$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$

$$h(x) = 2 \text{ rect}(x - 0.5)$$

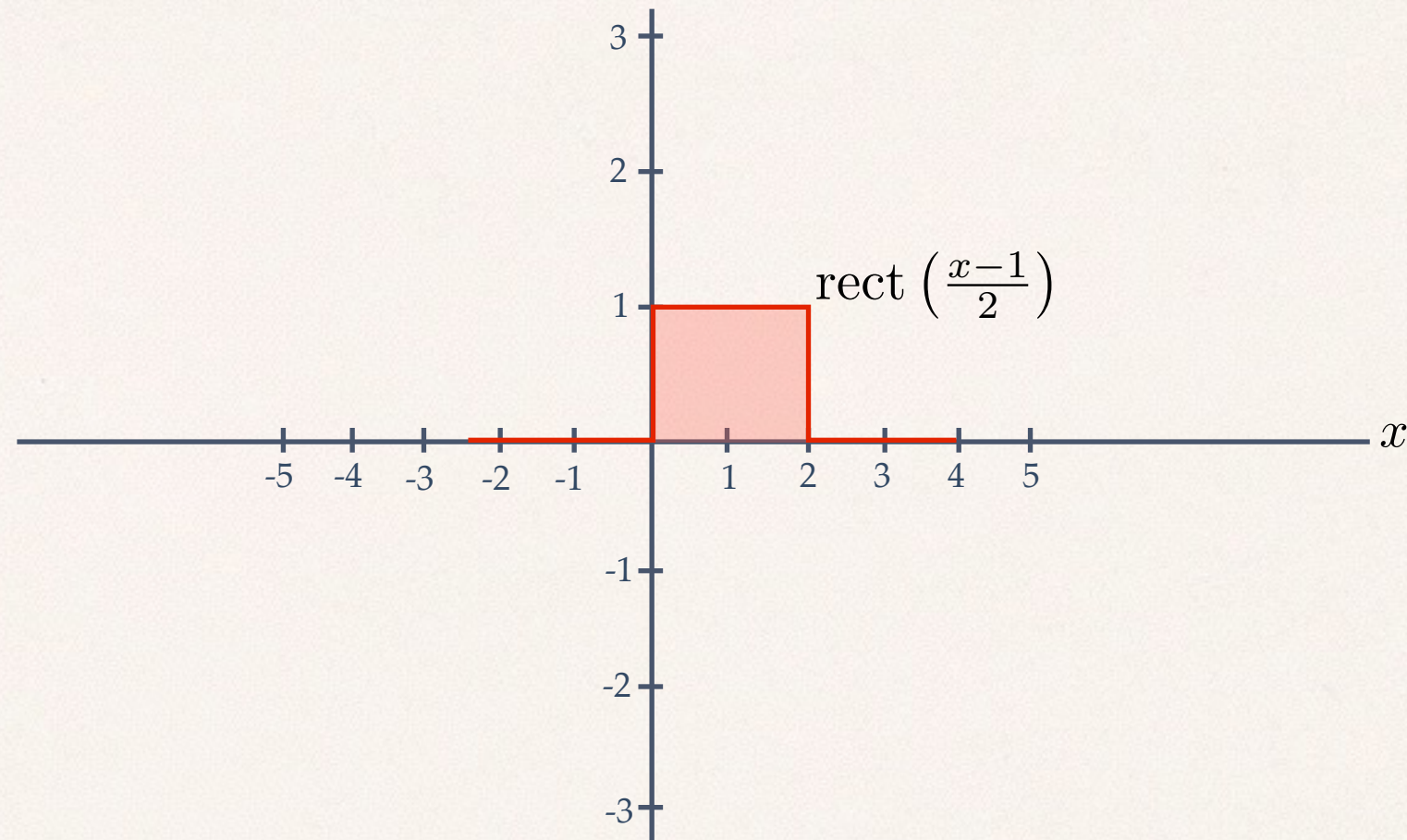




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$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$

$$h(x) = 2 \text{rect}(x - 0.5)$$

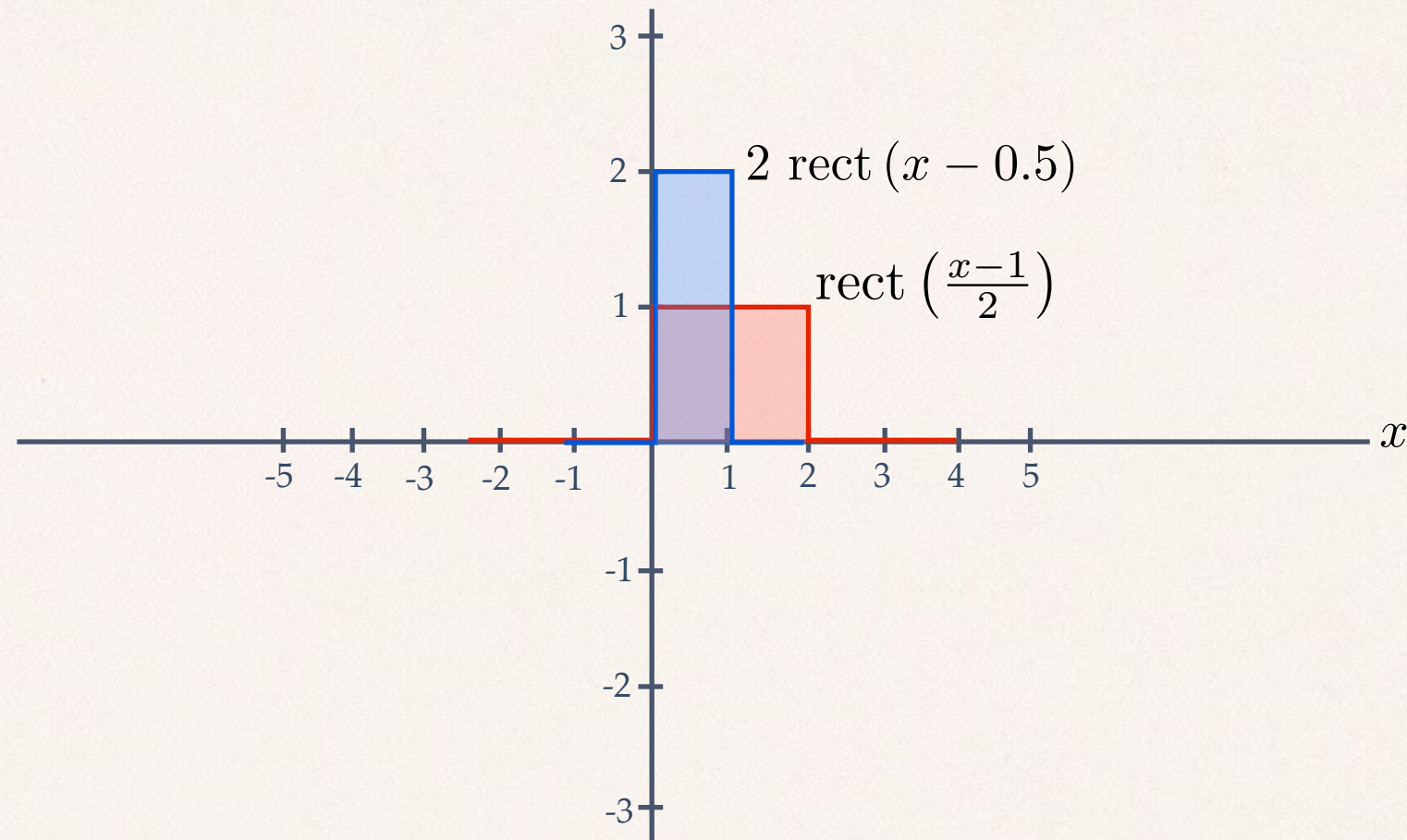




# Graphical Convolution: Example 1

$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$

$$h(x) = 2 \text{ rect}(x - 0.5)$$

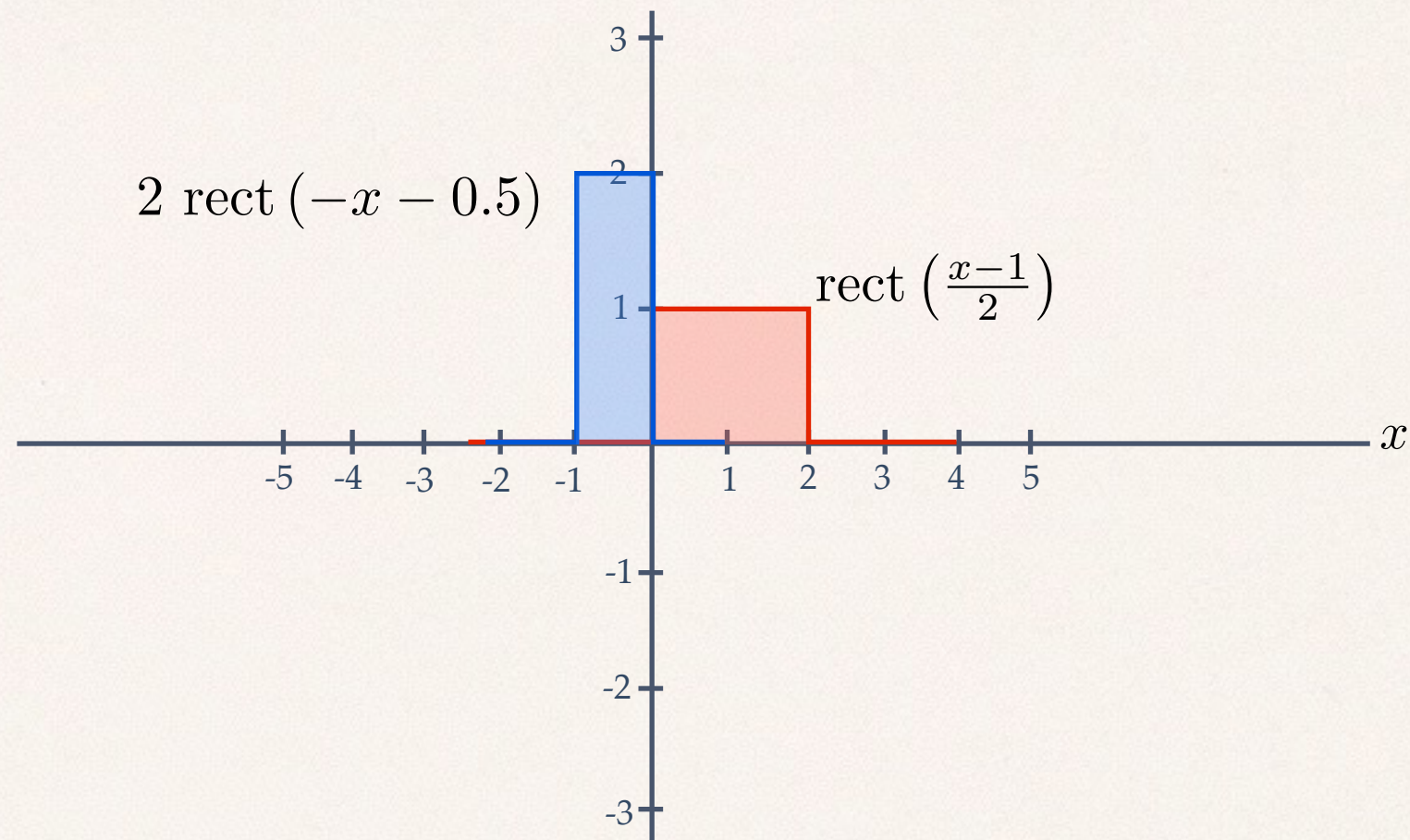




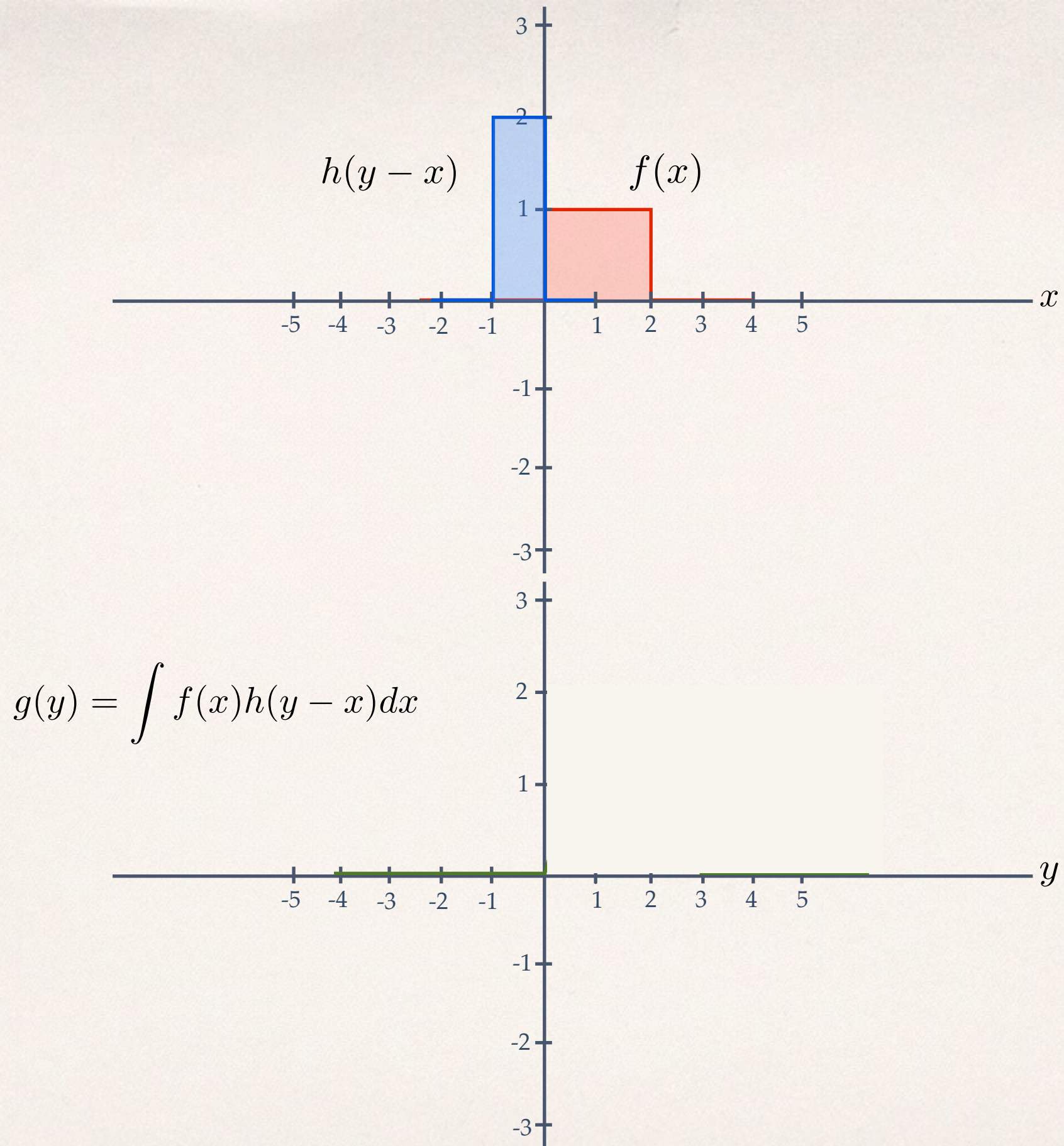
# Graphical Convolution: Example 1

$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$

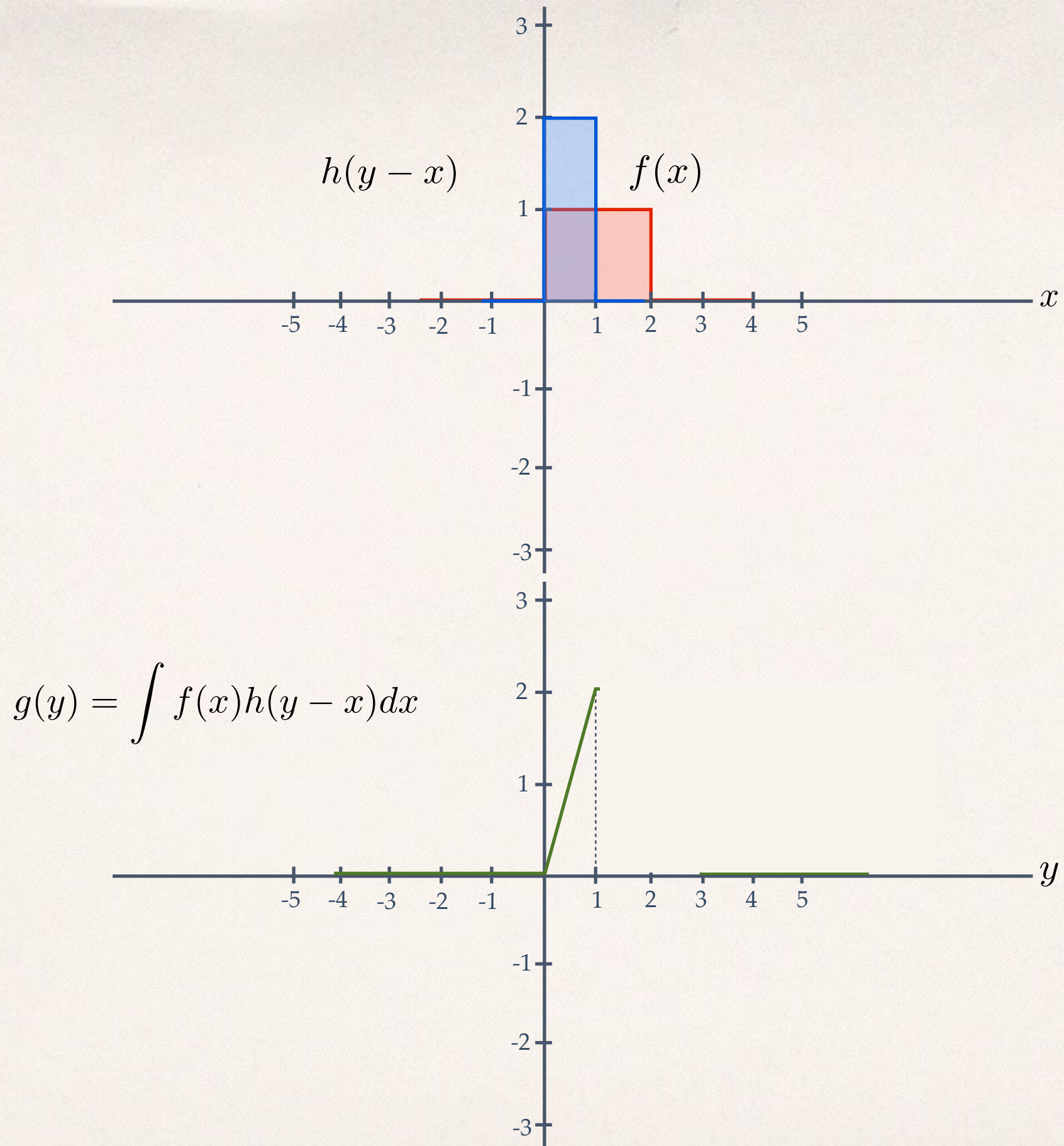
$$h(x) = 2 \text{ rect}(x - 0.5)$$



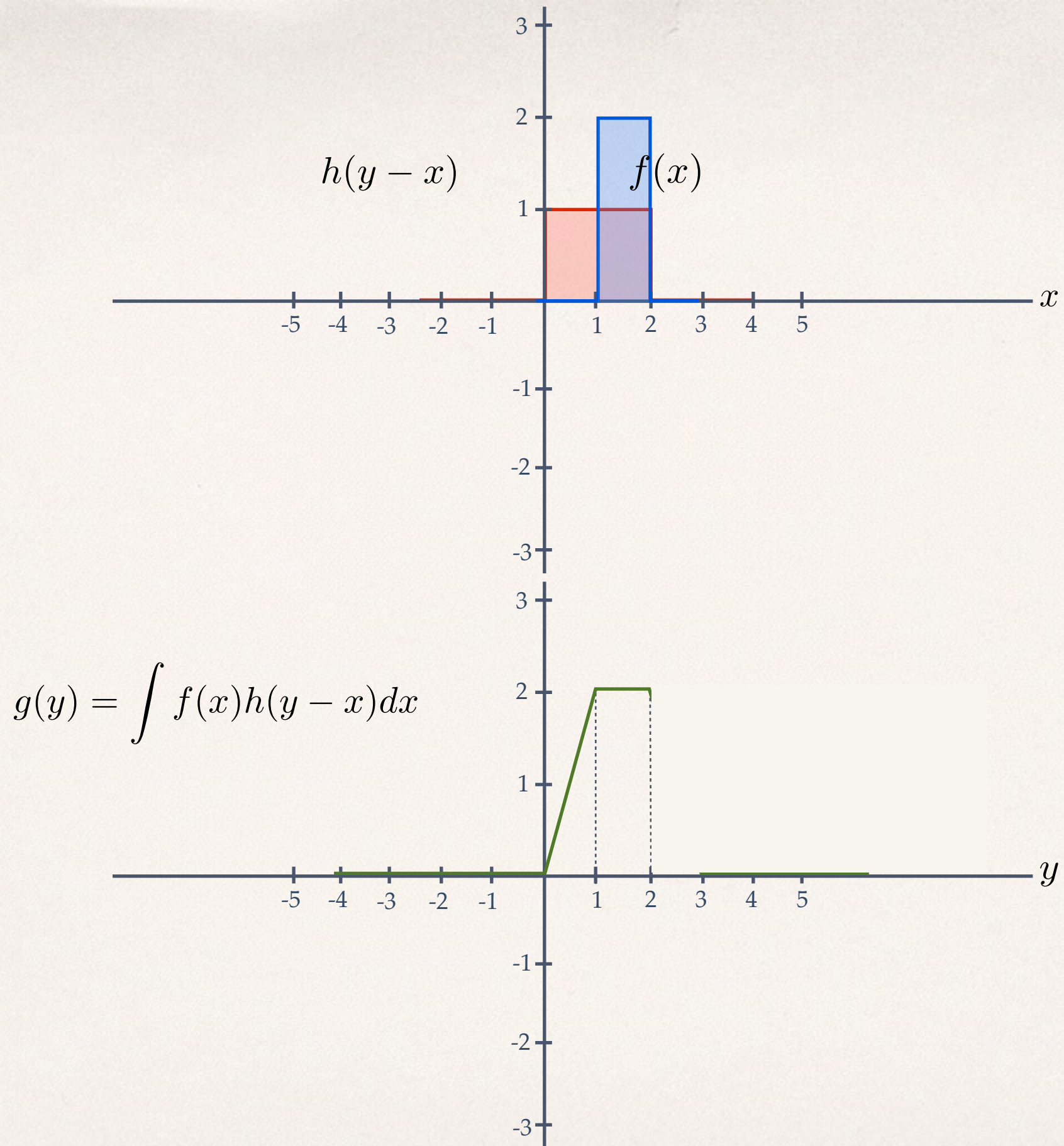




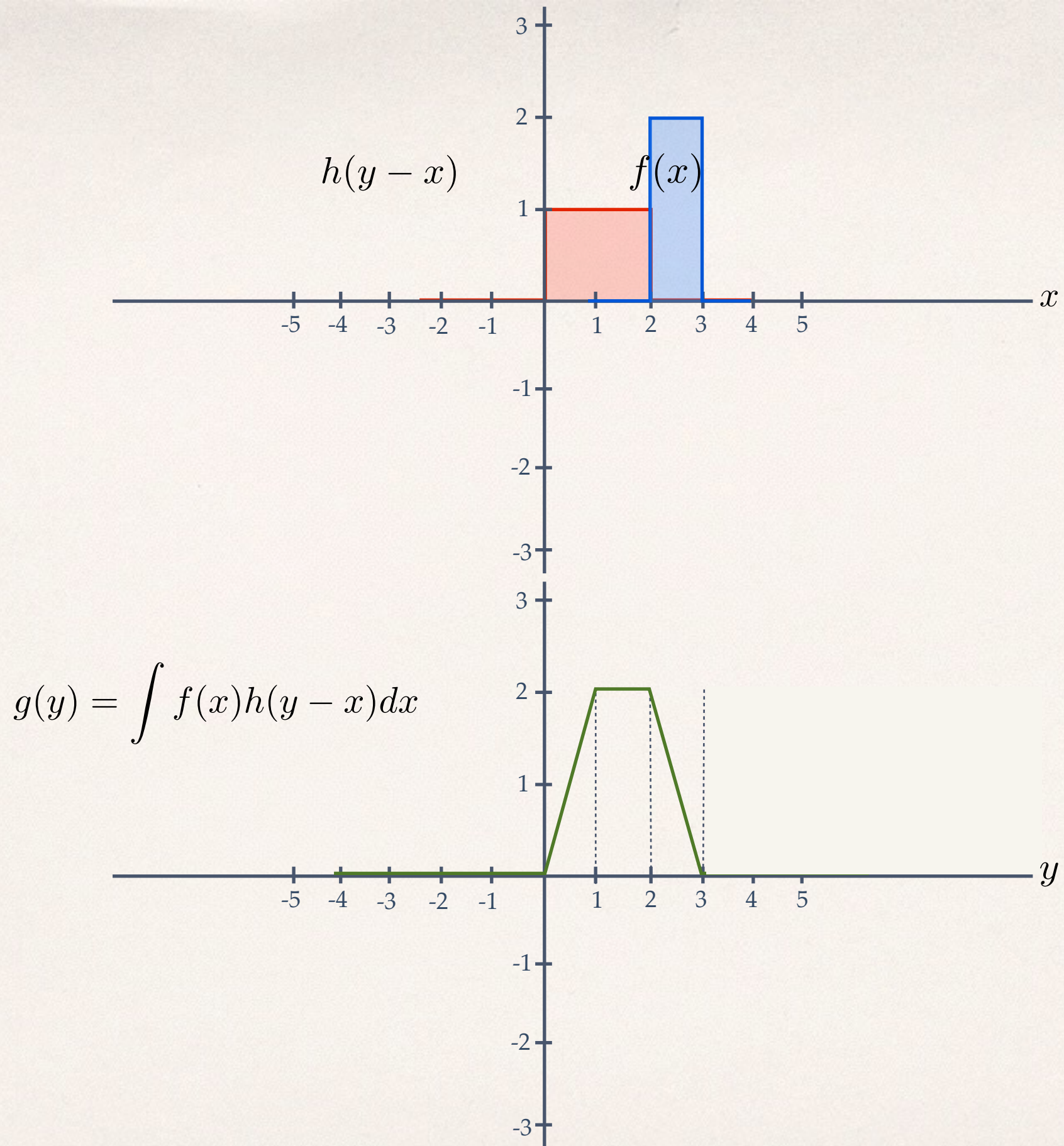




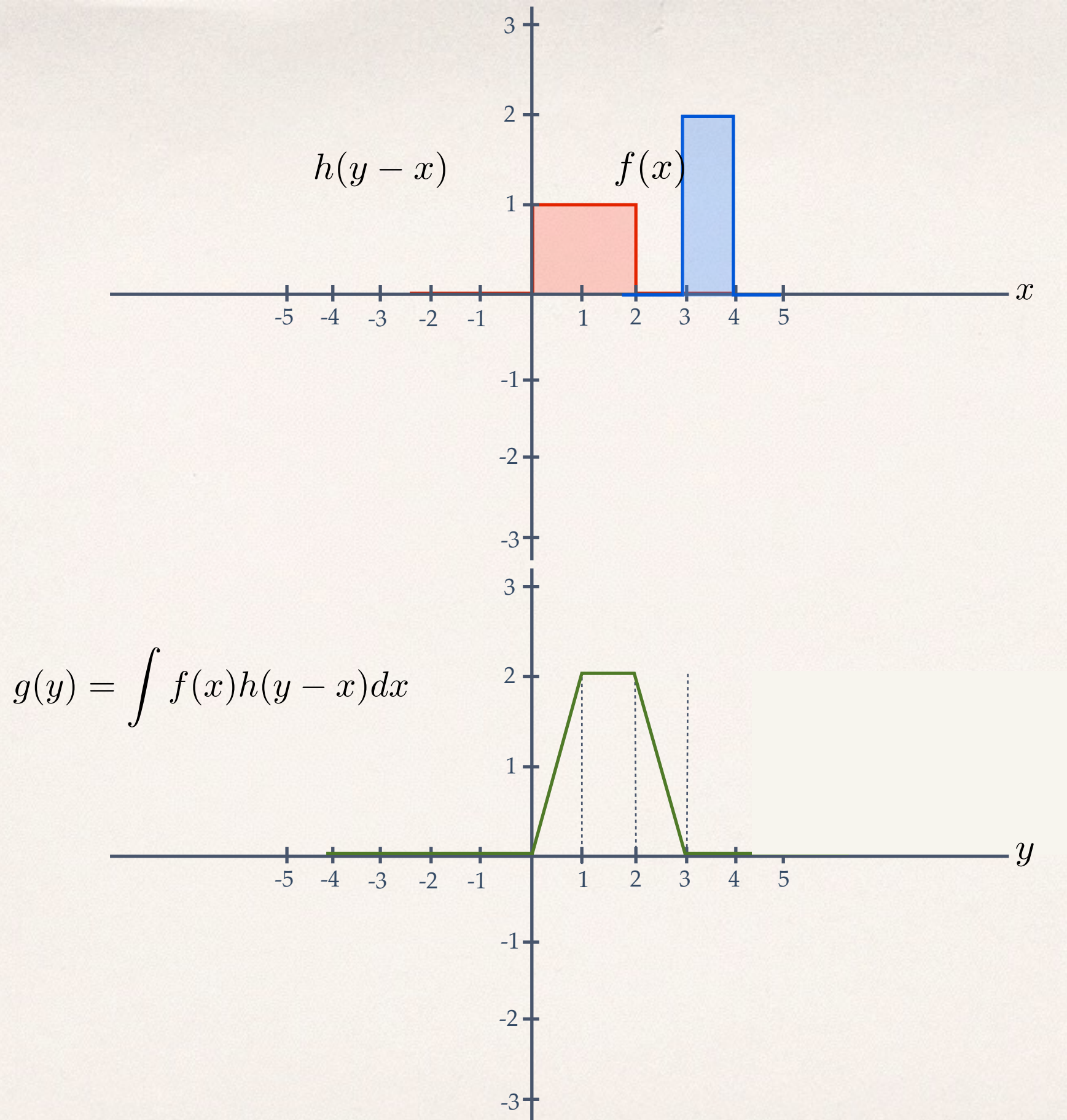








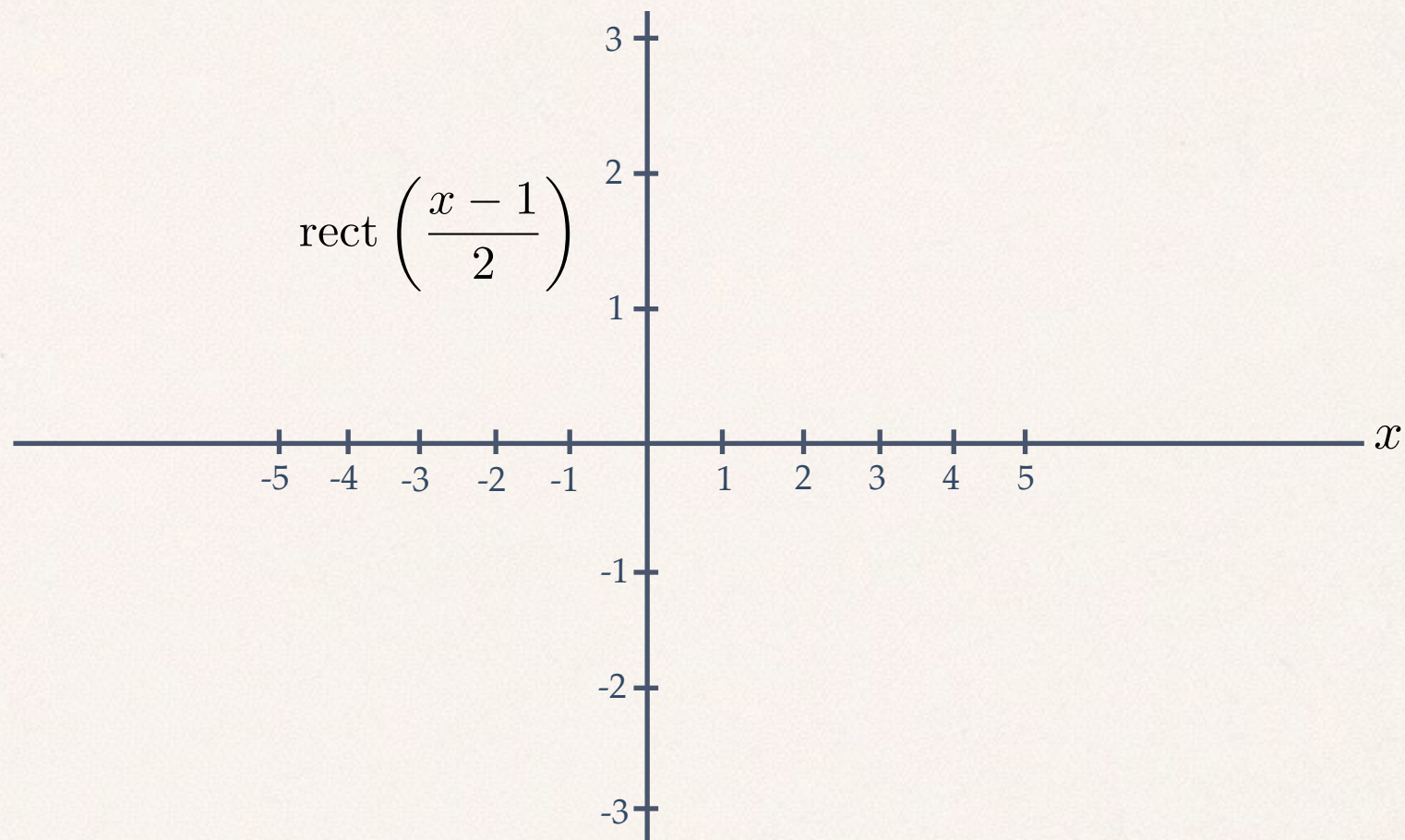






# Graphical Convolution: Example 2

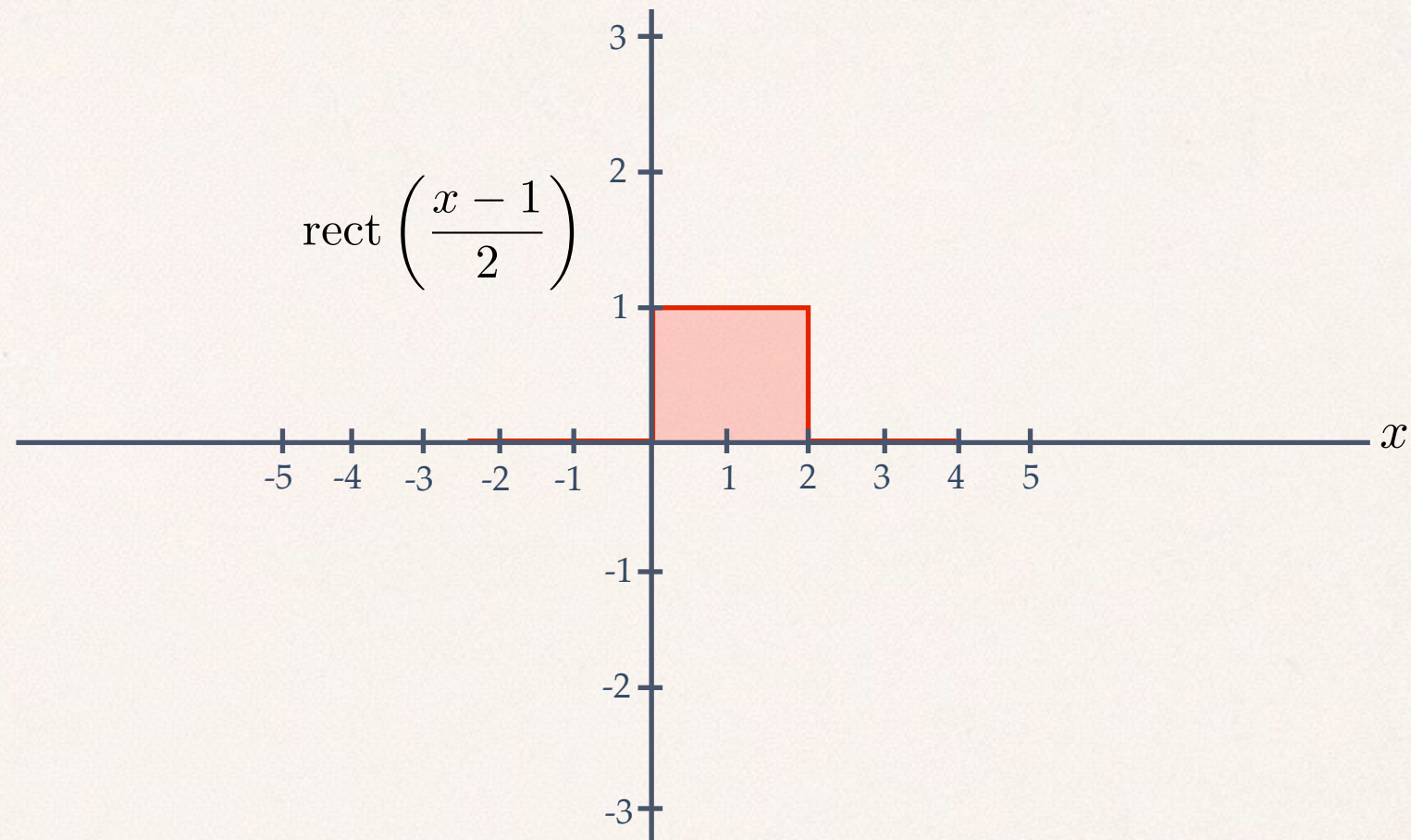
$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$
$$h(x) = \text{ramp}(x) \text{ rect}\left(\frac{x-1.5}{3}\right)$$





# Graphical Convolution: Example 2

$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$
$$h(x) = \text{ramp}(x) \text{ rect}\left(\frac{x-1.5}{3}\right)$$

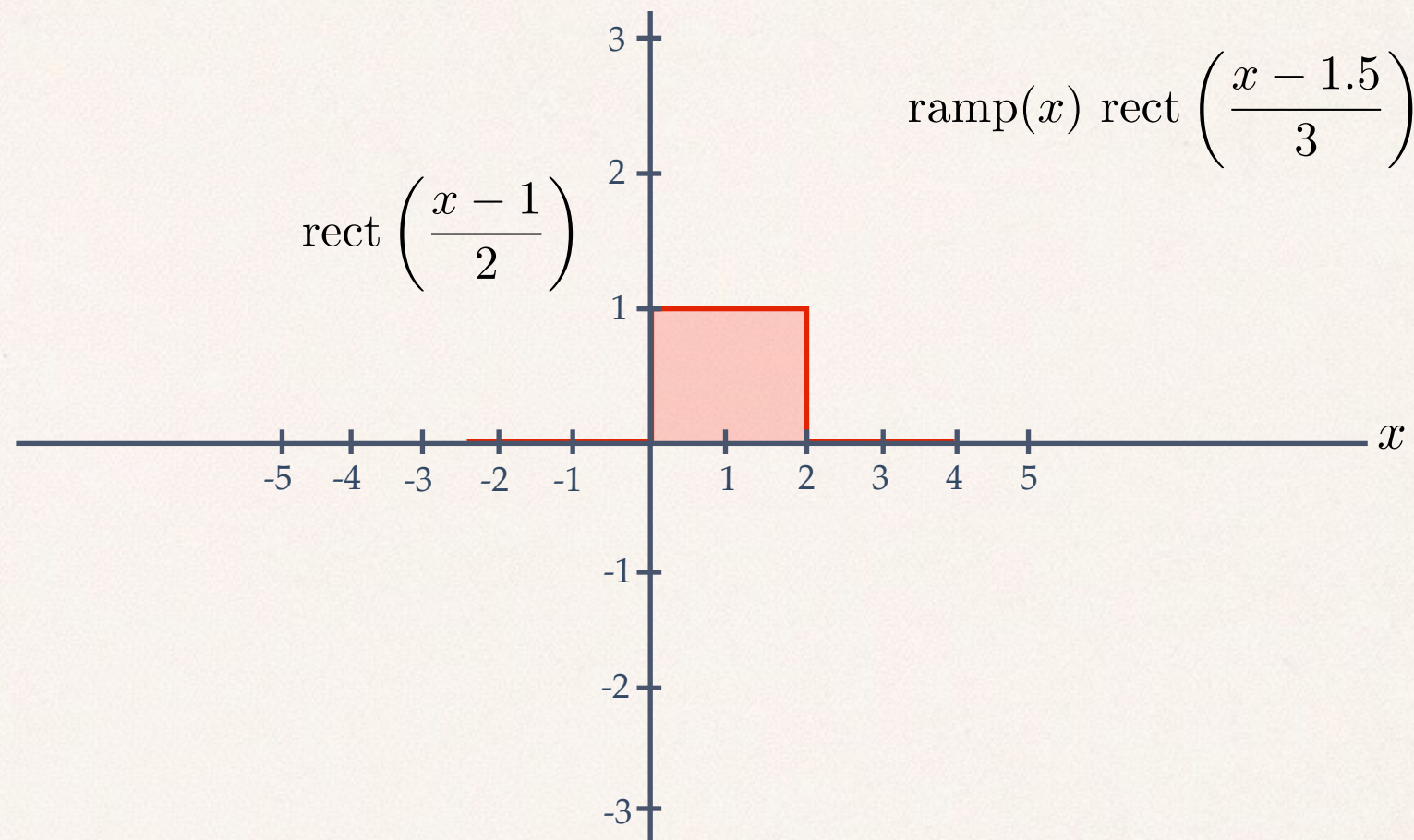




# Graphical Convolution: Example 2

$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$

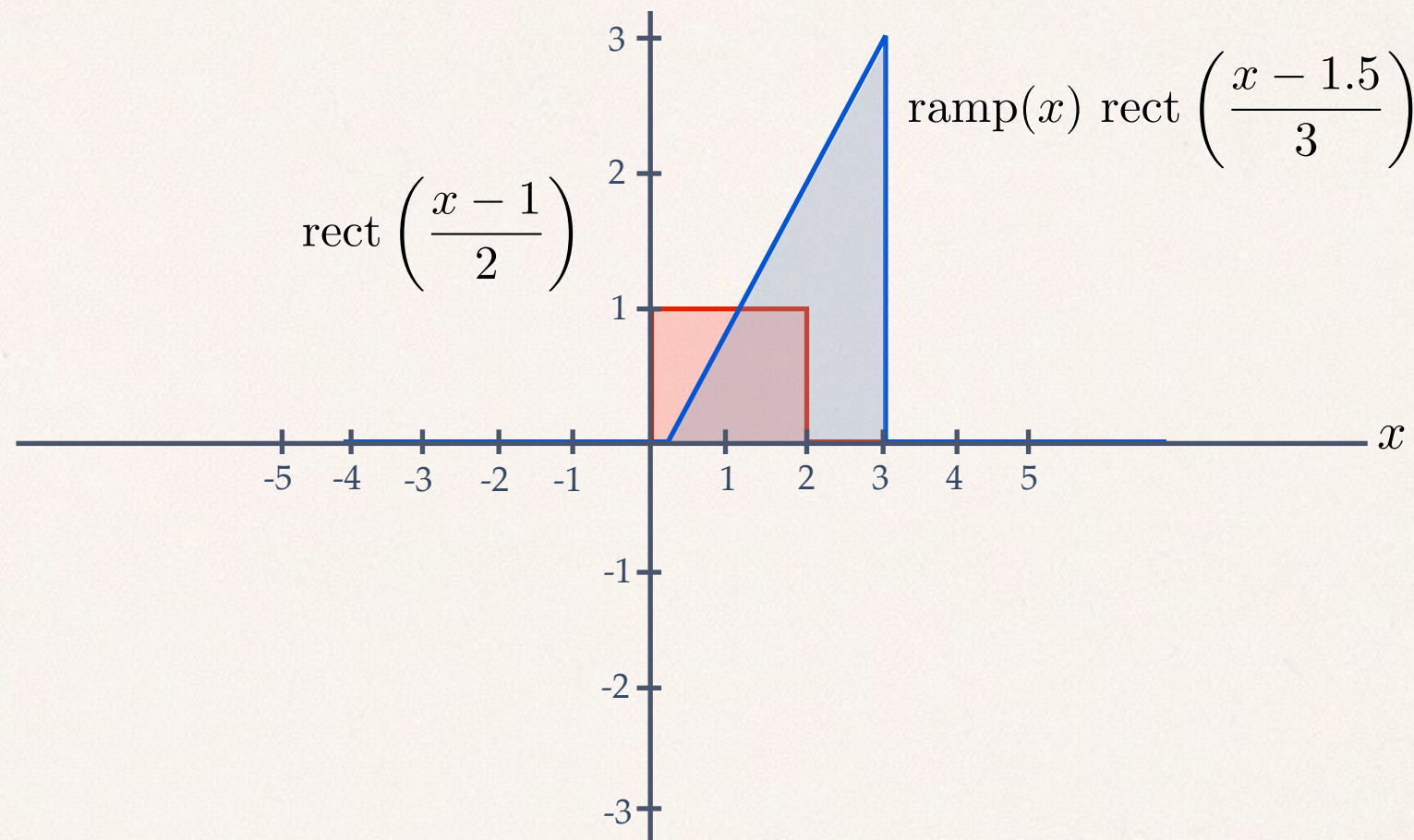
$$h(x) = \text{ramp}(x) \text{ rect}\left(\frac{x-1.5}{3}\right)$$





# Graphical Convolution: Example 2

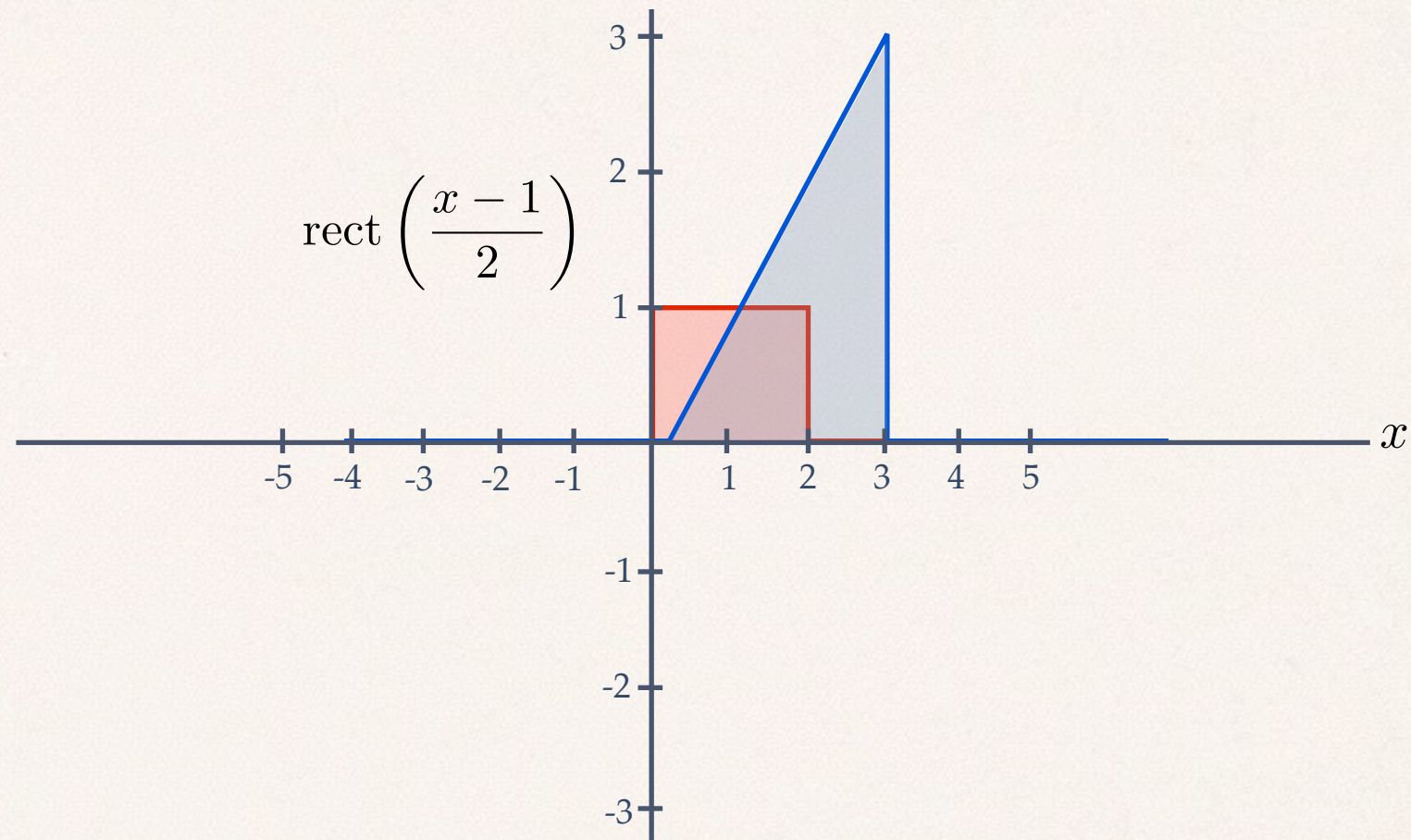
$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$
$$h(x) = \text{ramp}(x) \text{ rect}\left(\frac{x-1.5}{3}\right)$$





# Graphical Convolution: Example 2

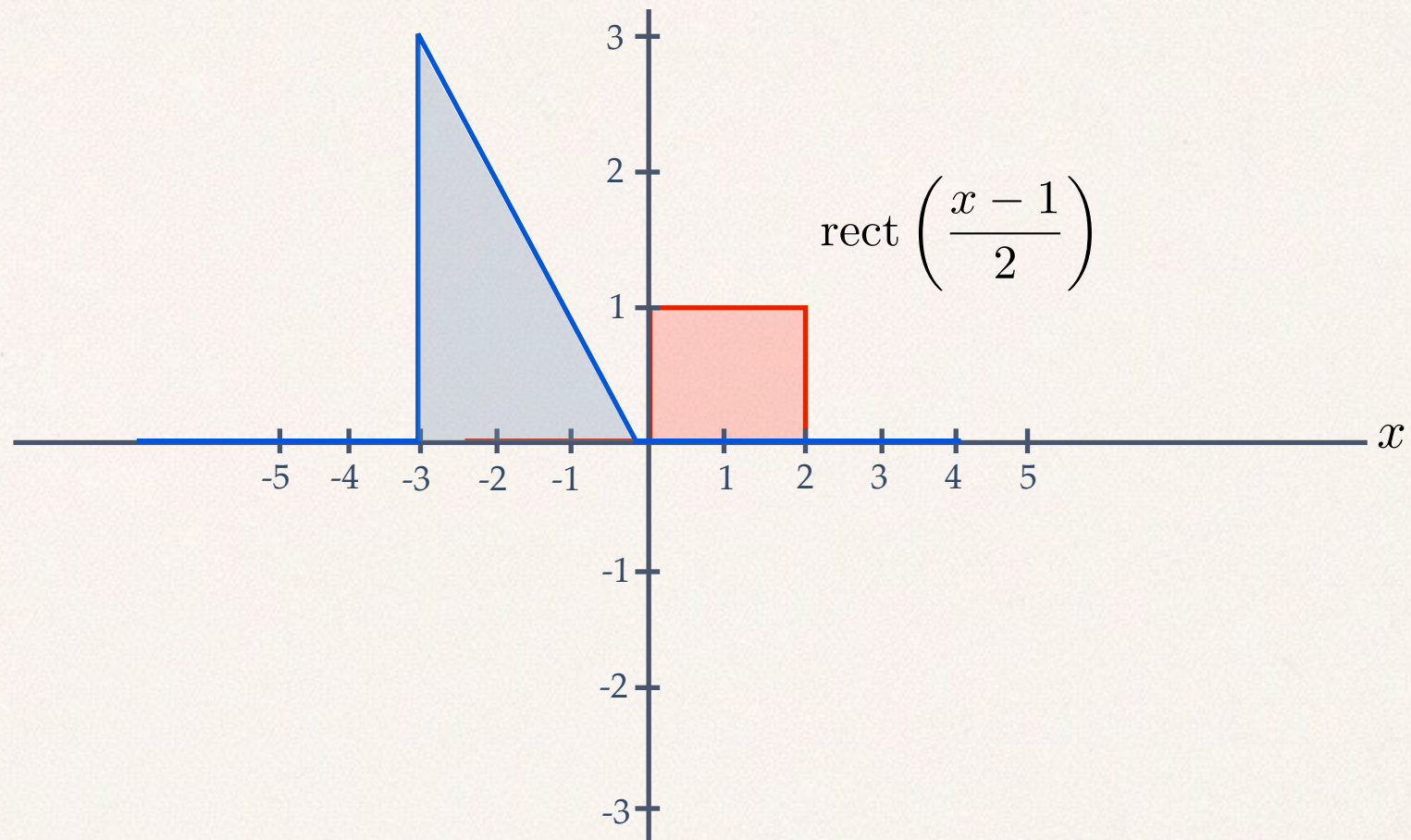
$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$
$$h(x) = \text{ramp}(x) \text{ rect}\left(\frac{x-1.5}{3}\right)$$





# Graphical Convolution: Example 2

$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$
$$h(x) = \text{ramp}(x) \text{ rect}\left(\frac{x-1.5}{3}\right)$$

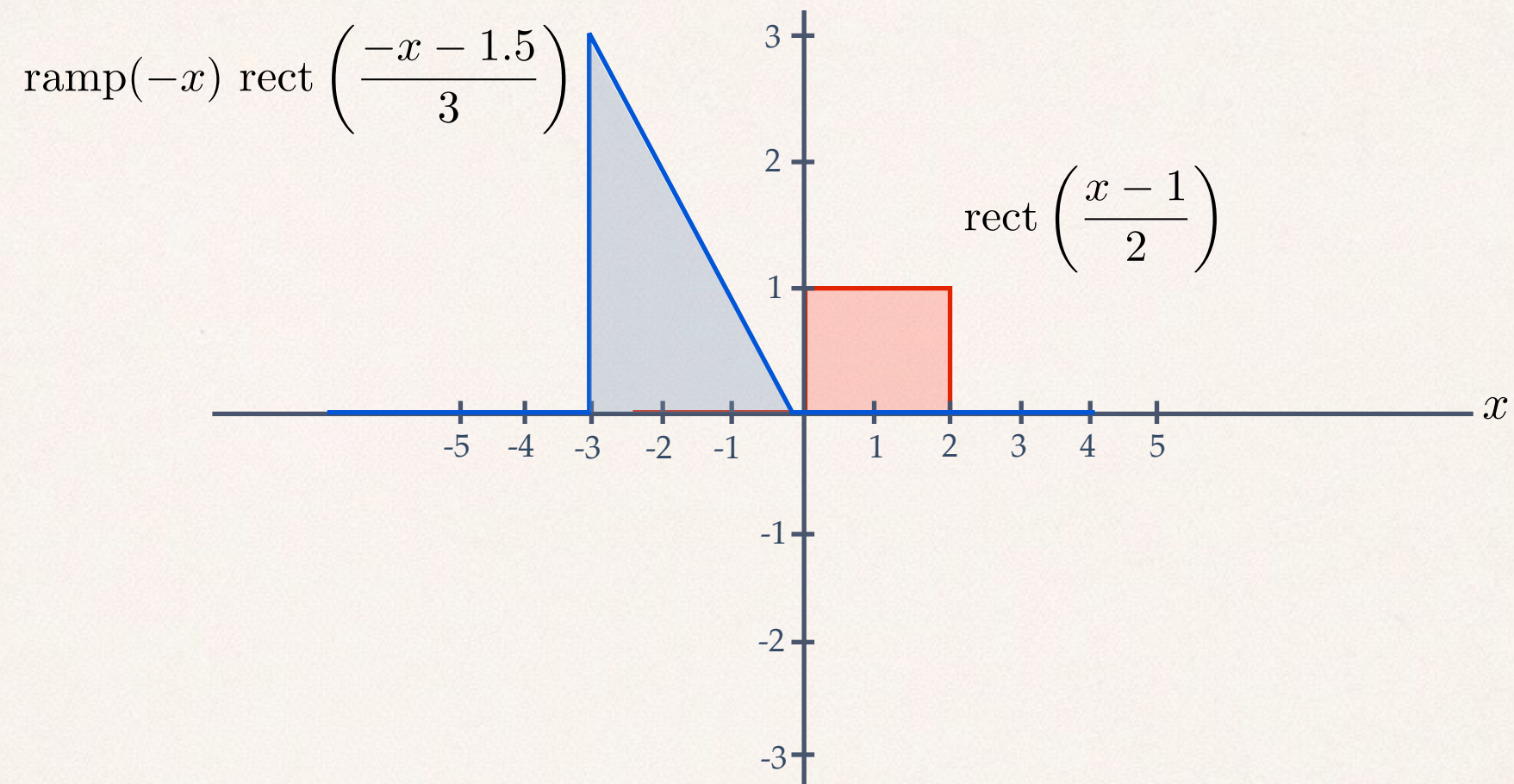




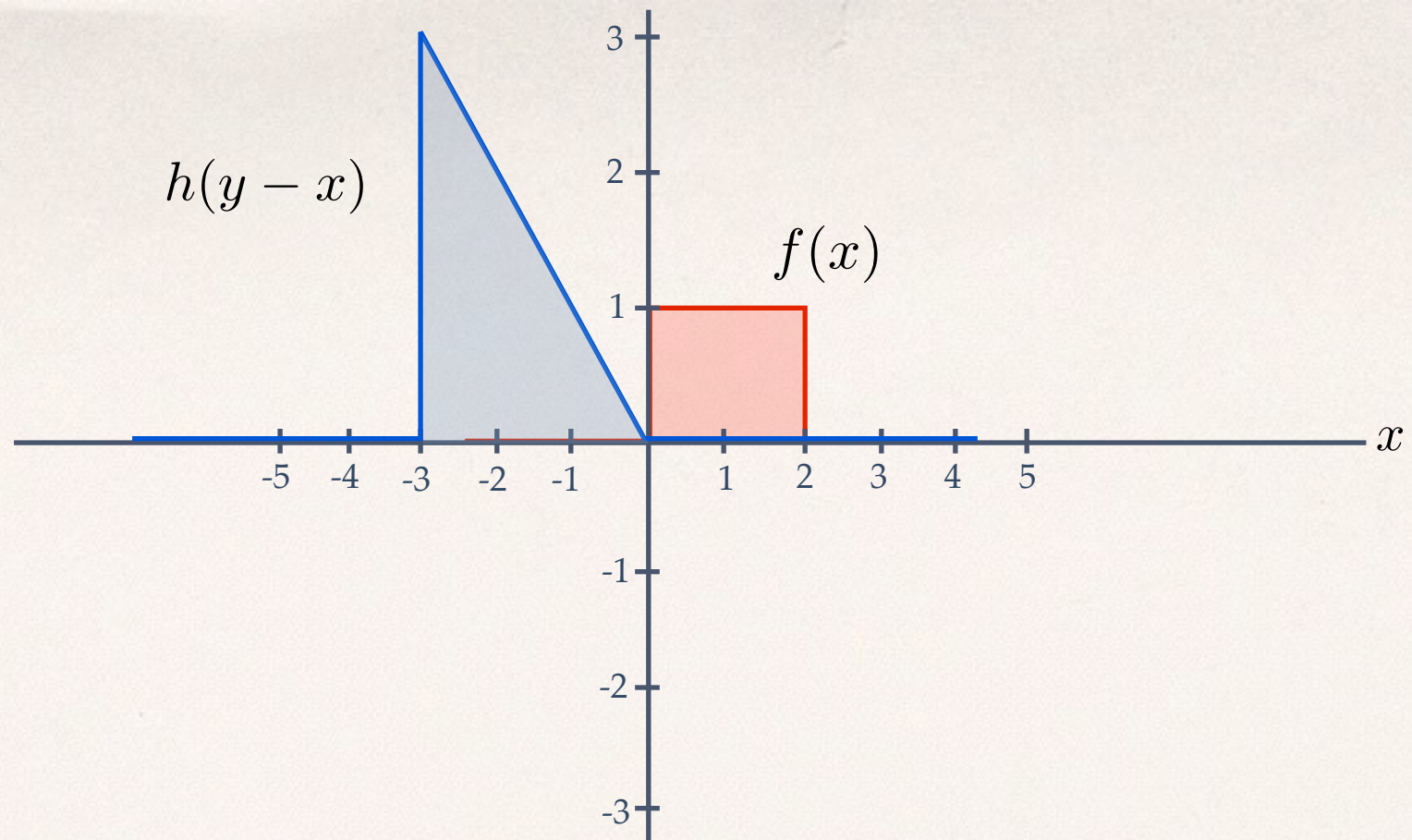
# Graphical Convolution: Example 2

$$f(x) = \text{rect}\left(\frac{x-1}{2}\right)$$

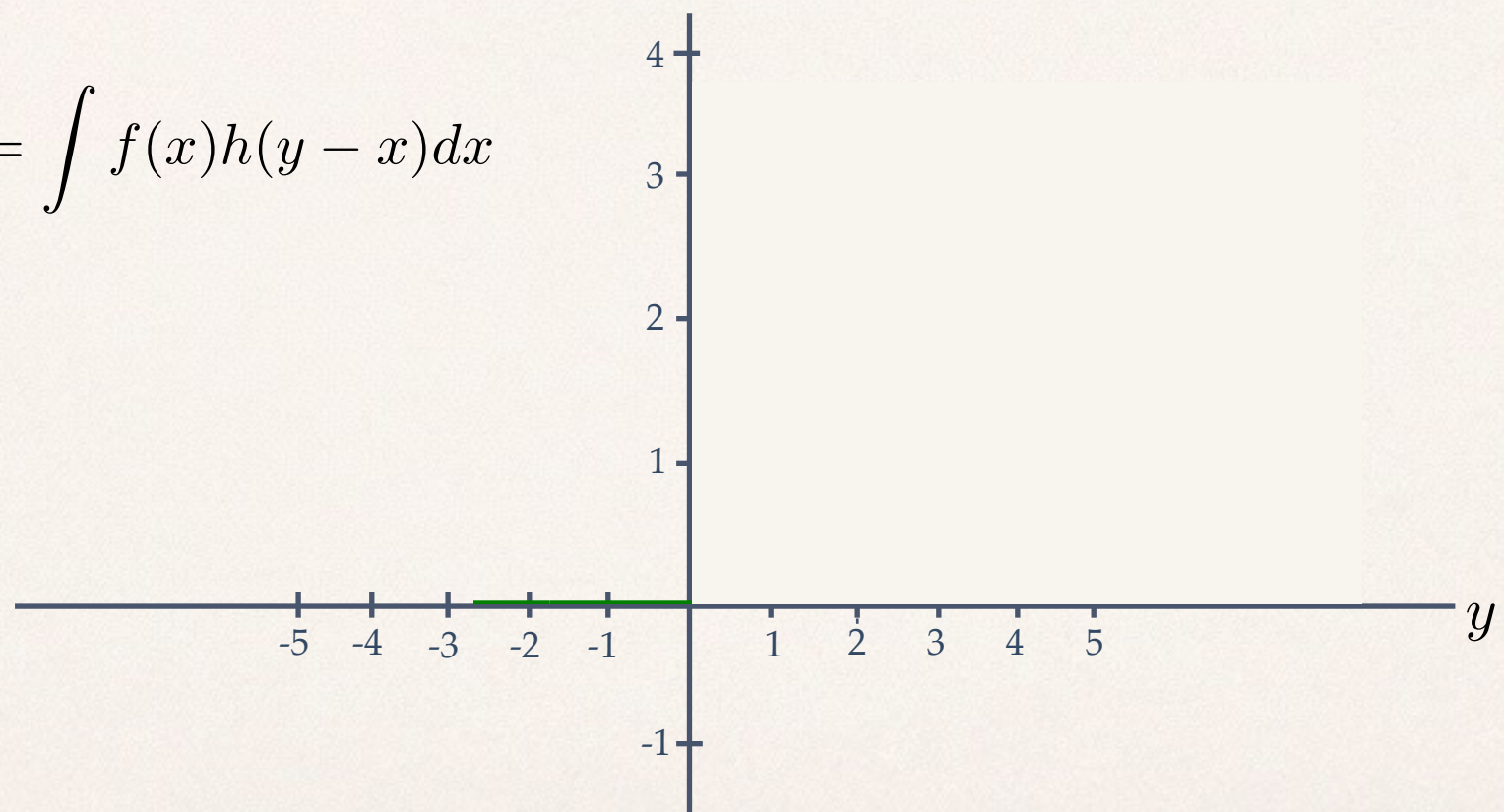
$$h(x) = \text{ramp}(x) \text{ rect}\left(\frac{x-1.5}{3}\right)$$



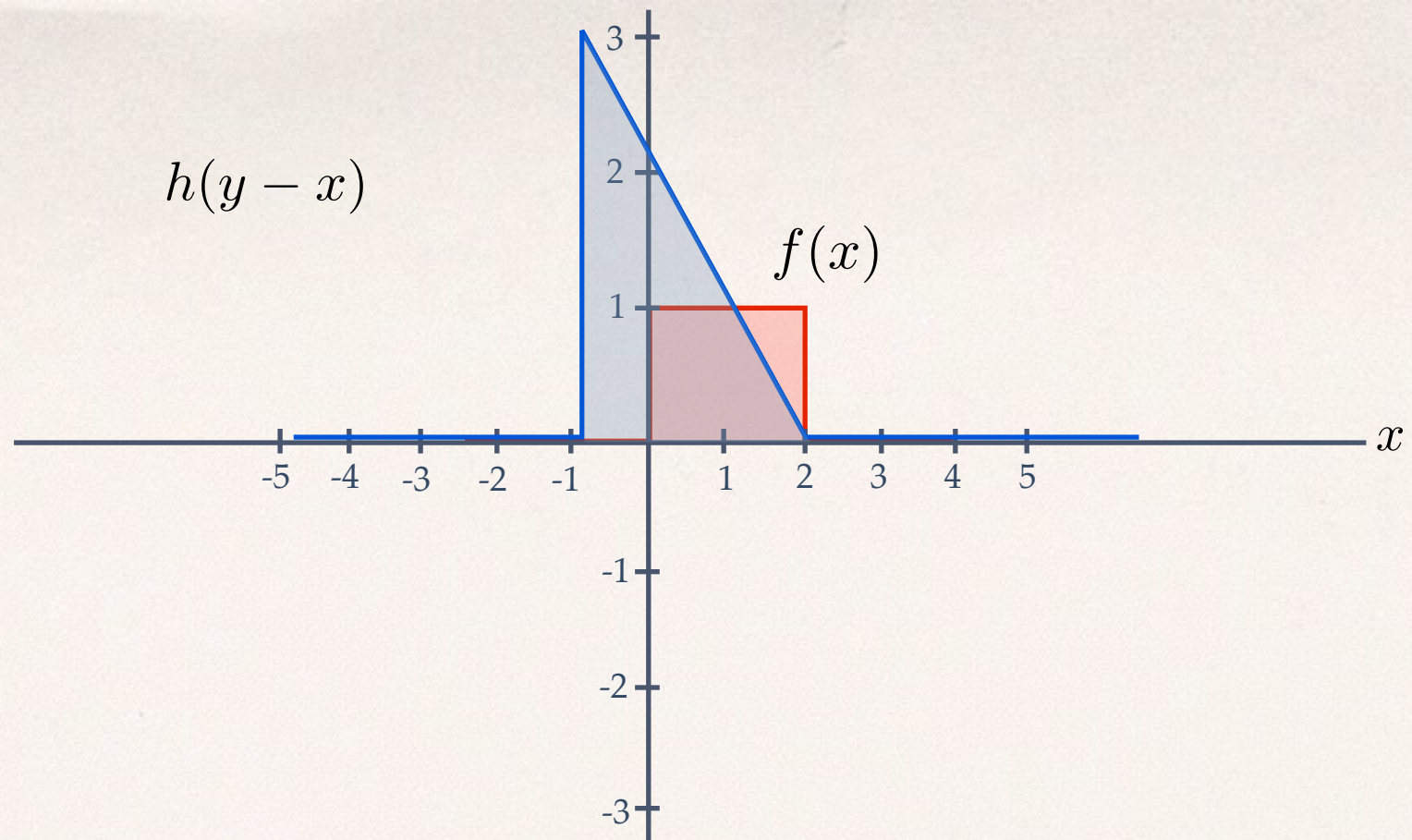




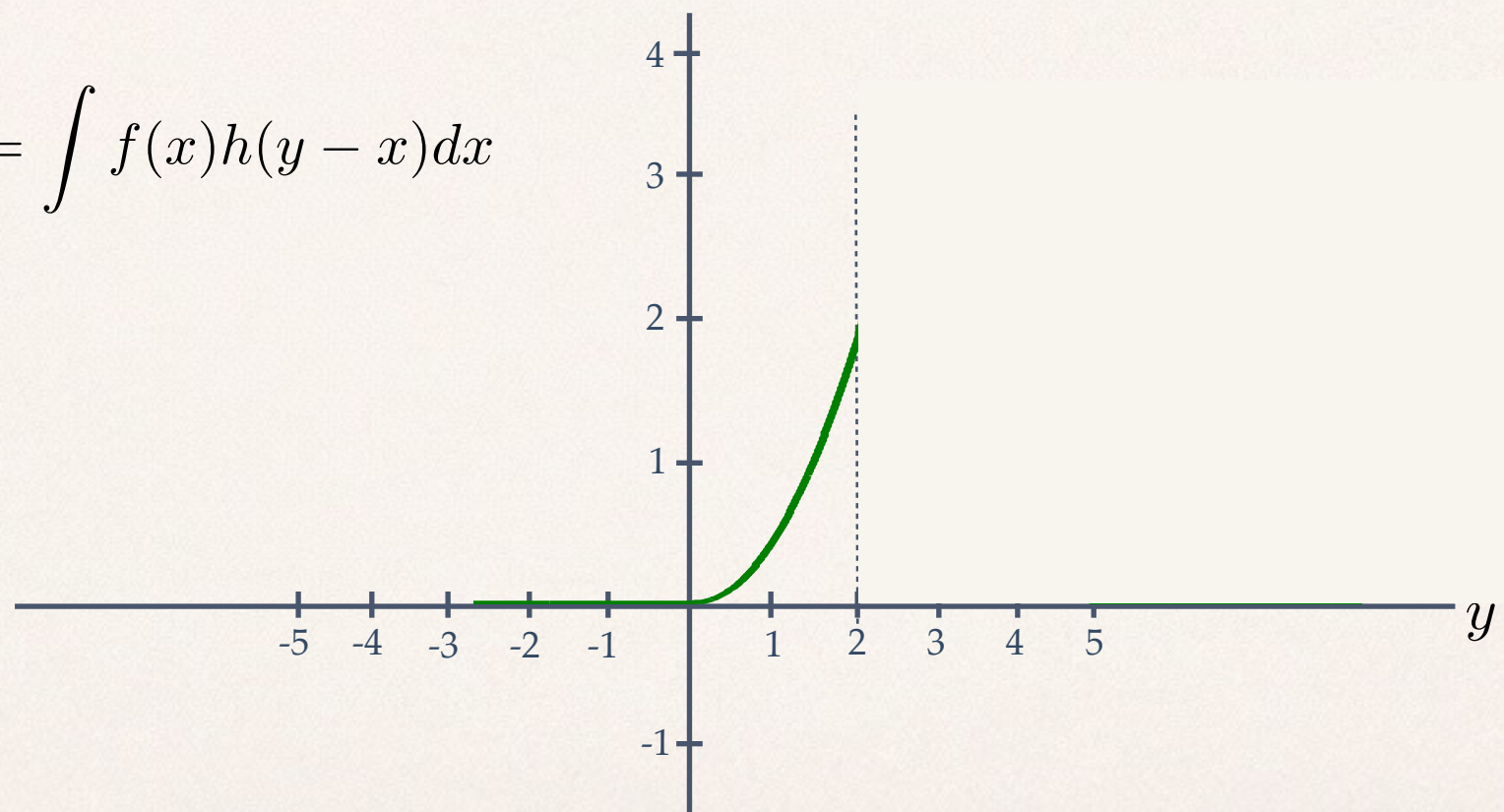
$$g(y) = \int f(x)h(y-x)dx$$



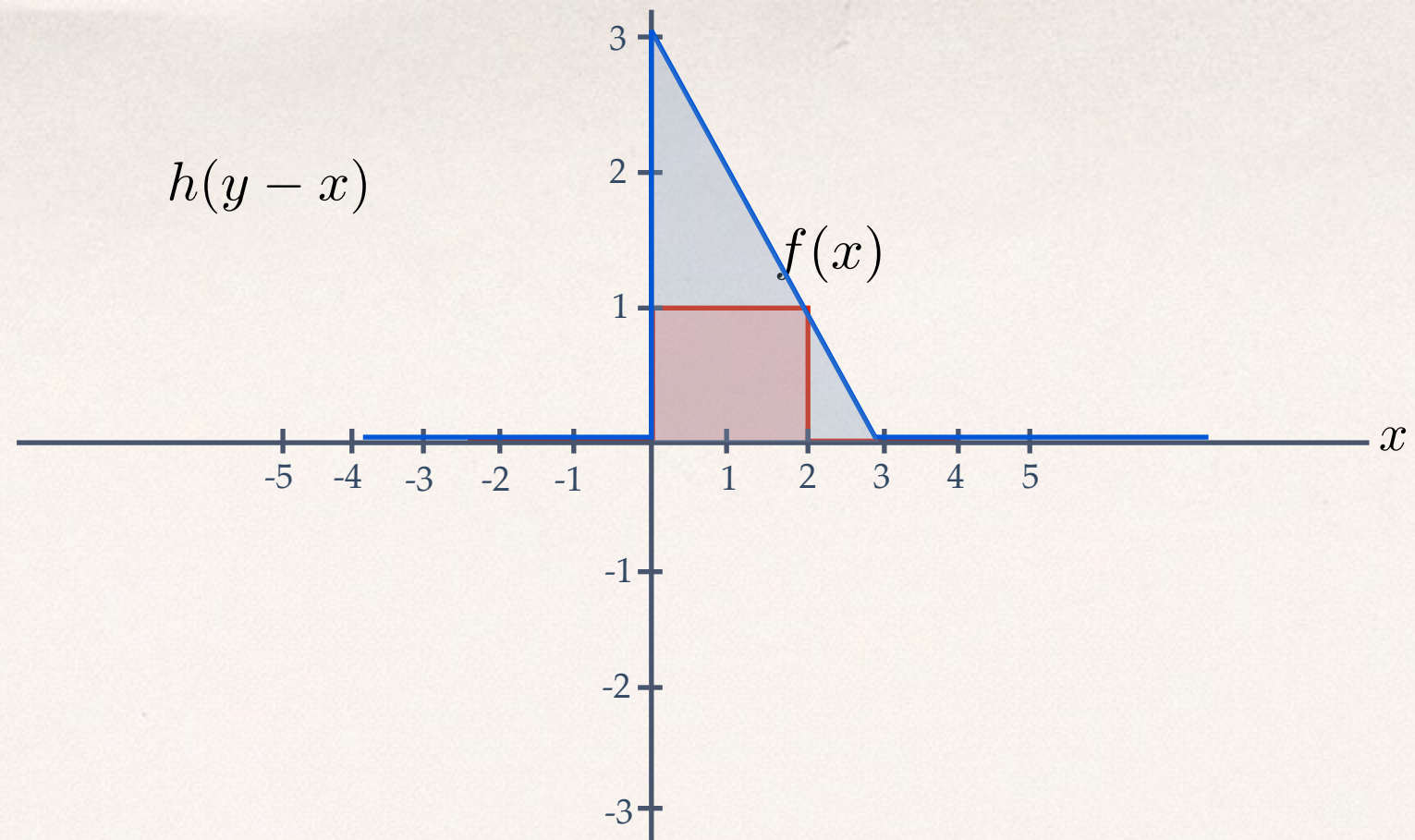




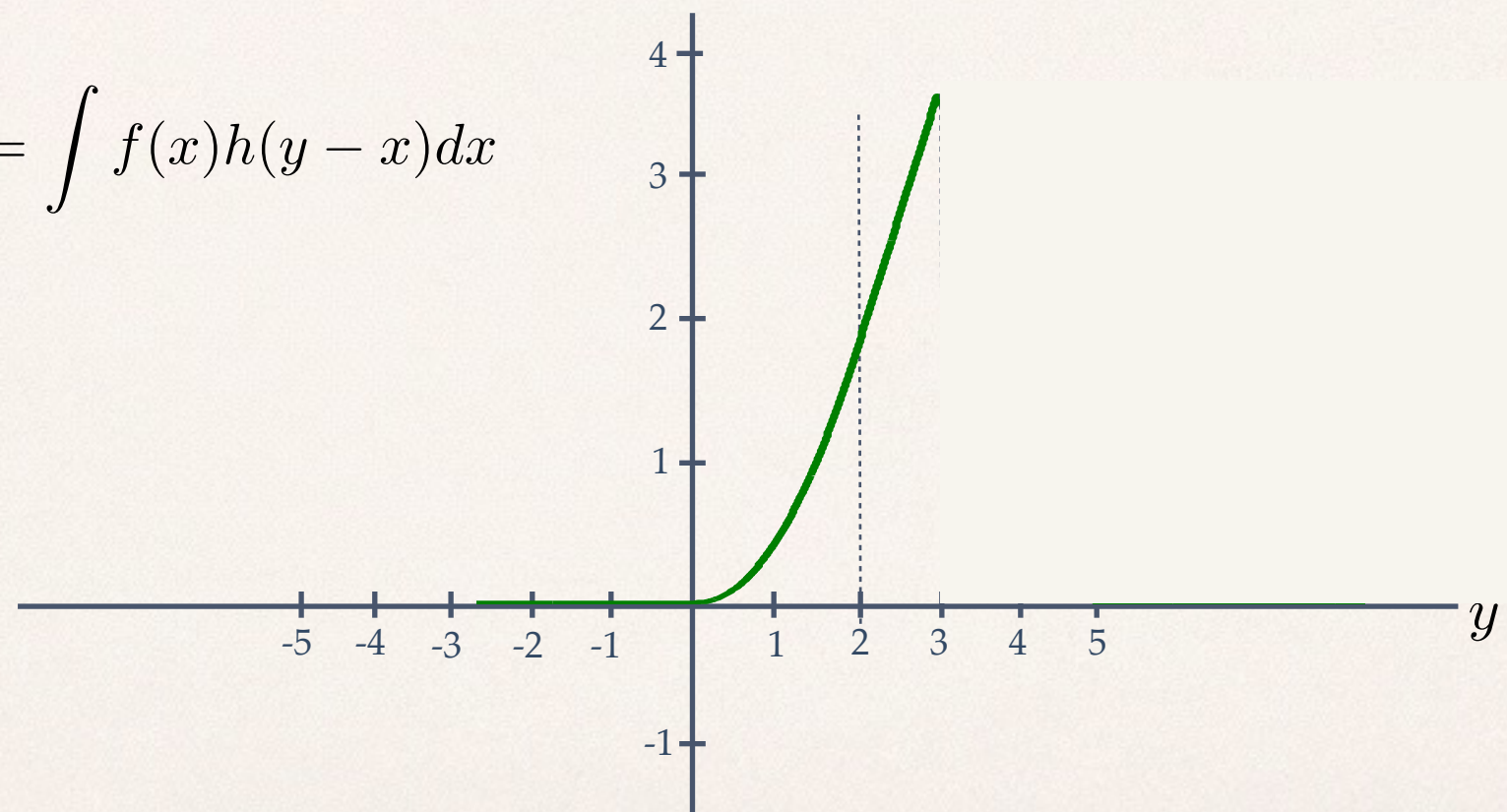
$$g(y) = \int f(x)h(y-x)dx$$



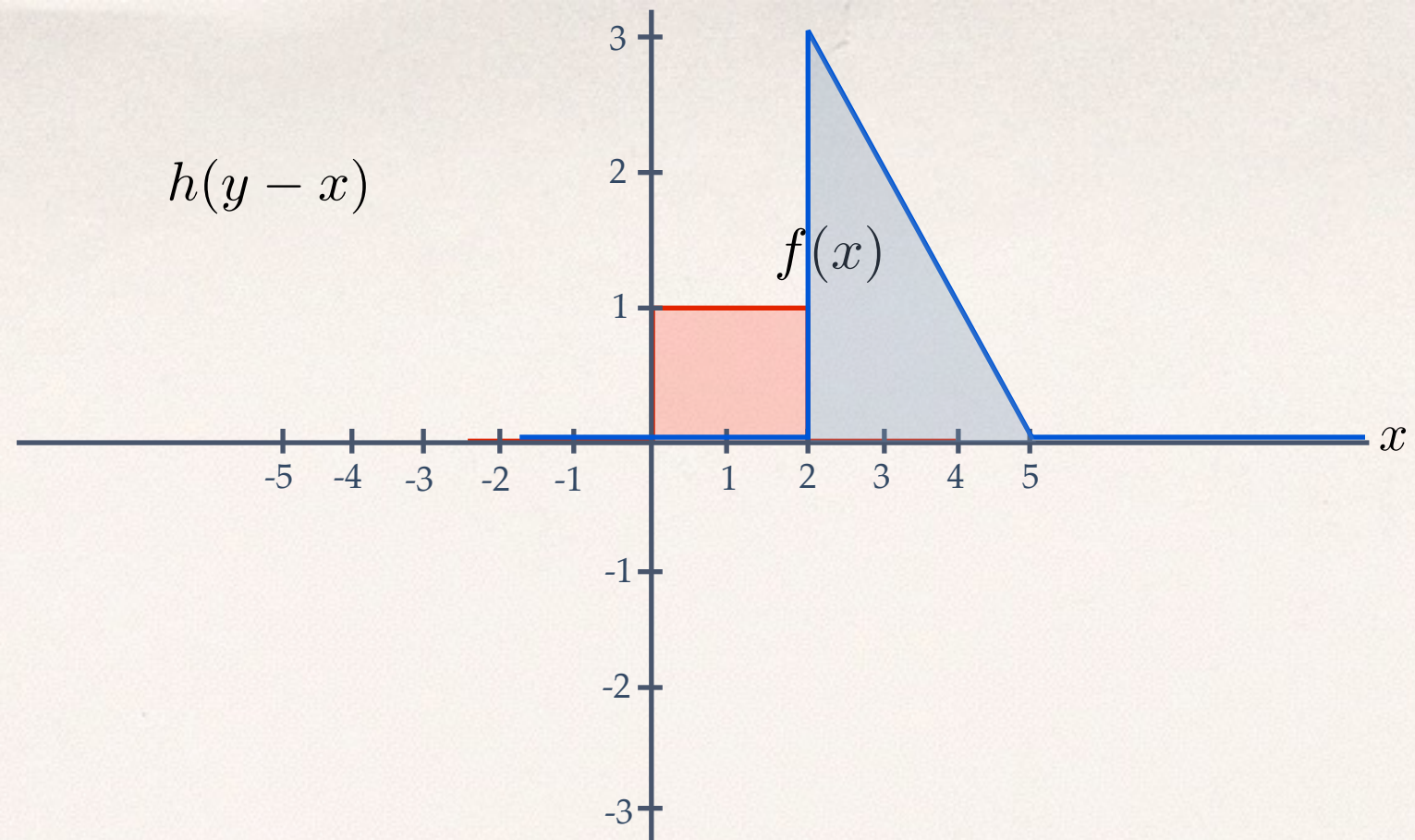




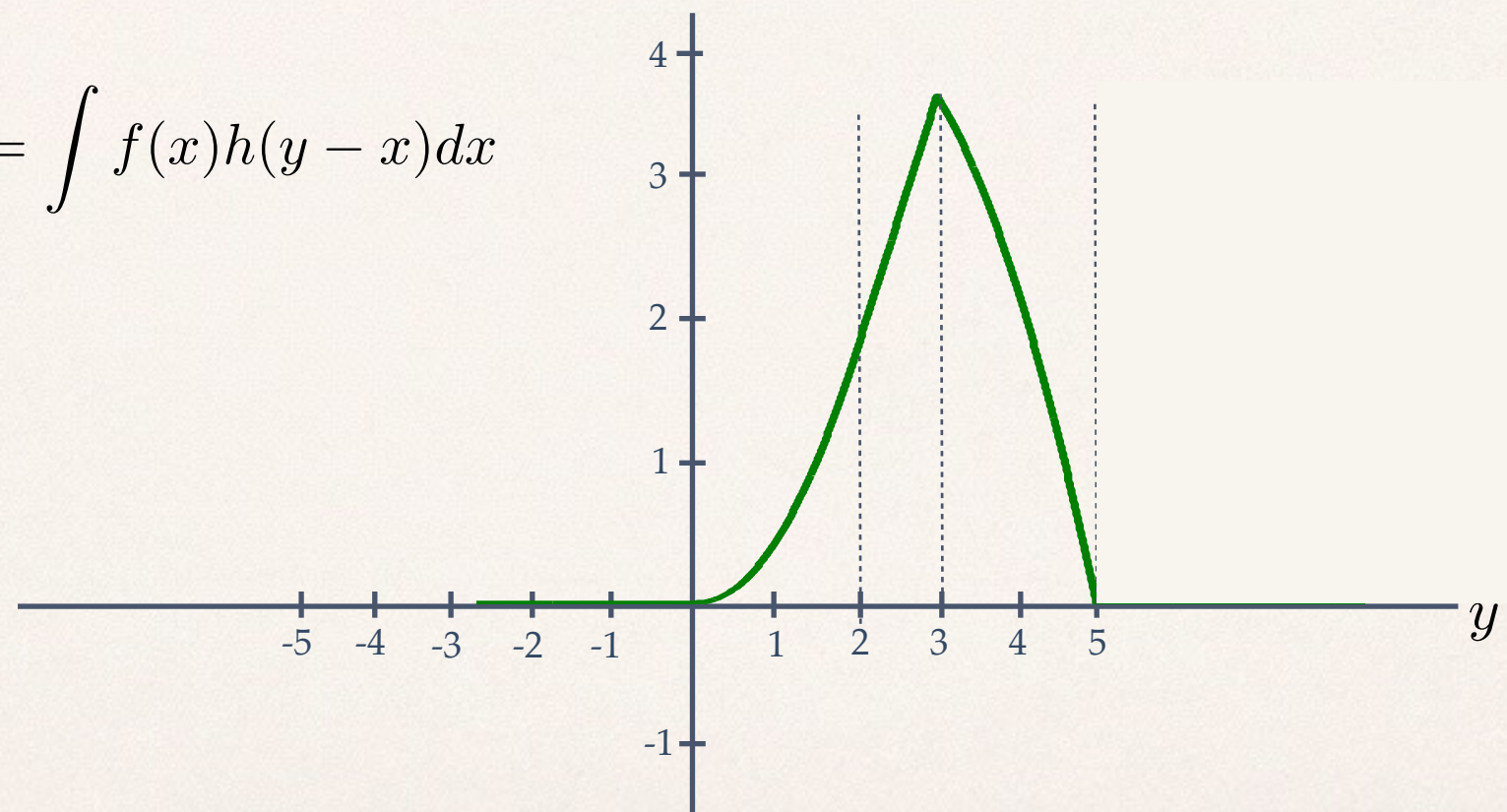
$$g(y) = \int f(x)h(y-x)dx$$



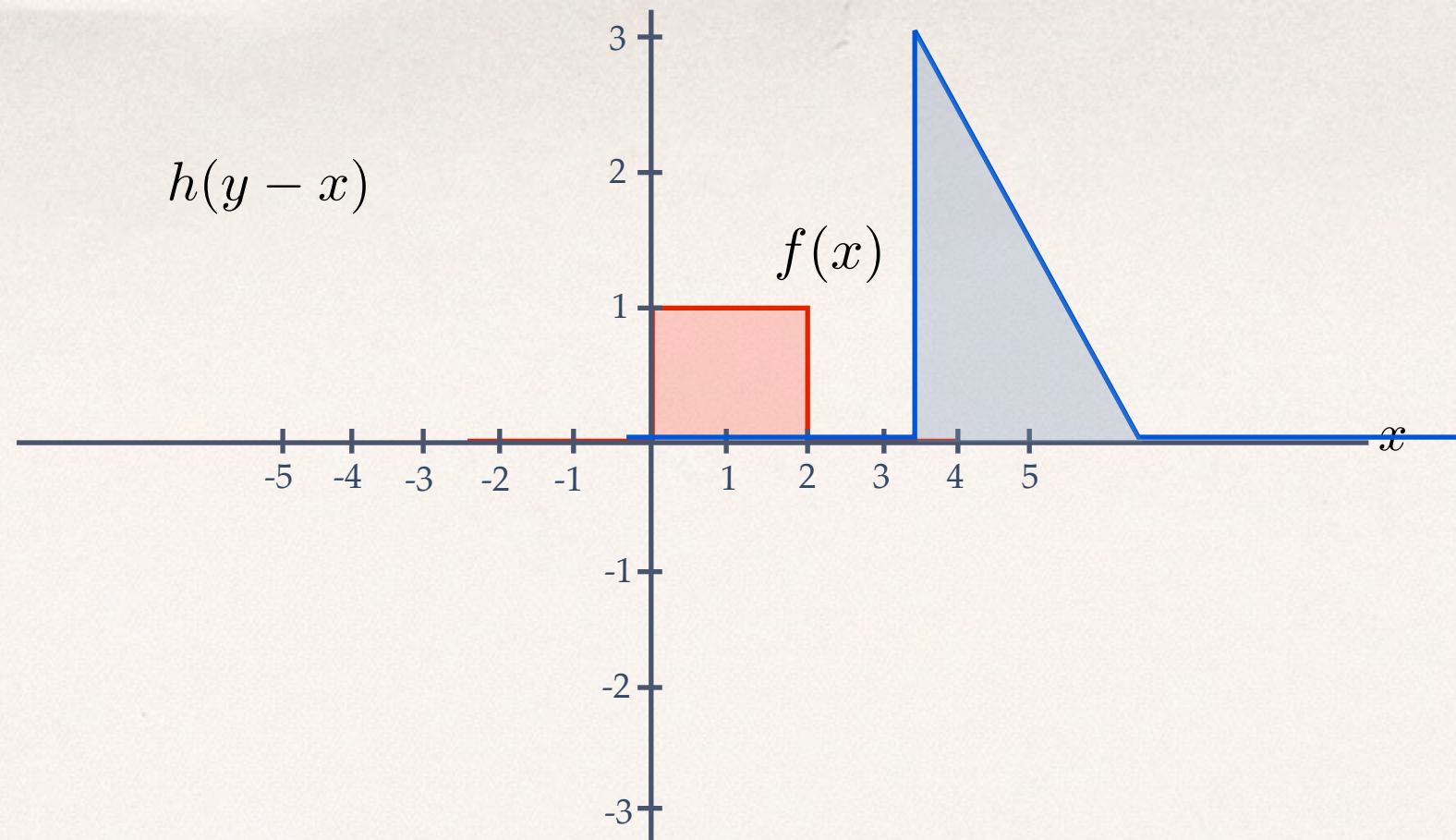




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