

EX: Fig. 1 below shows an example of convolution of an impulse with another function, $h(t)$.

The result is a copy of $h(t)$ scaled by the area of the impulse. That is, convolution with an impulse replicates and scales a function.

Note also that the position of the copy of $h(t)$ is translated in the horizontal direction by exactly the firing time, $t = 2$, of the impulse.

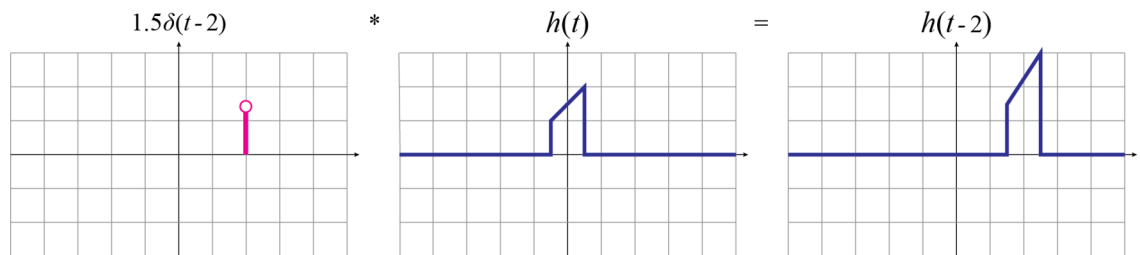


Fig. 1. Convolution with an impulse replicates a function.