http://en.wikipedia.org/wiki/Convolution

- 1. Express each function in terms of a dummy variable τ .
- 2. Reflect one of the functions: $g(\tau) \rightarrow g(-\tau)$.
- 3. Add a time-offset, t, which allows $g(t \tau)$ to slide along the τ -axis.
- Start t at -∞ and slide it all the way to +∞. Wherever the two functions intersect, find the integral of their product.
 In other words, compute a <u>sliding</u>, weighted-average of function f(τ), where the weighting function is g(− τ).

The resulting waveform (not shown here) is the convolution of functions f and g. If f(t) is a unit impulse, the result of this process is simply g(t), which is therefore called the impulse response.

See also http://www.jhu.edu/signals/convolve/

