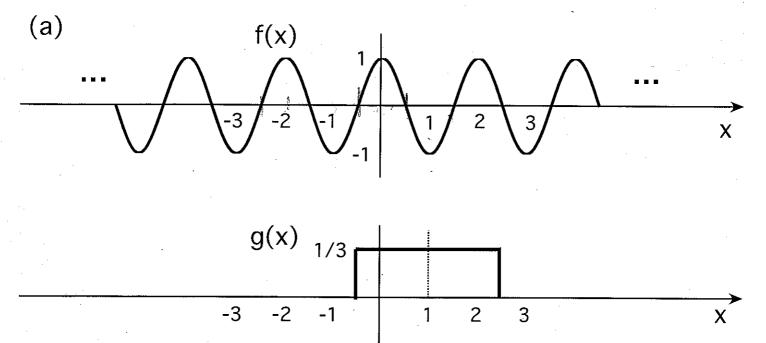
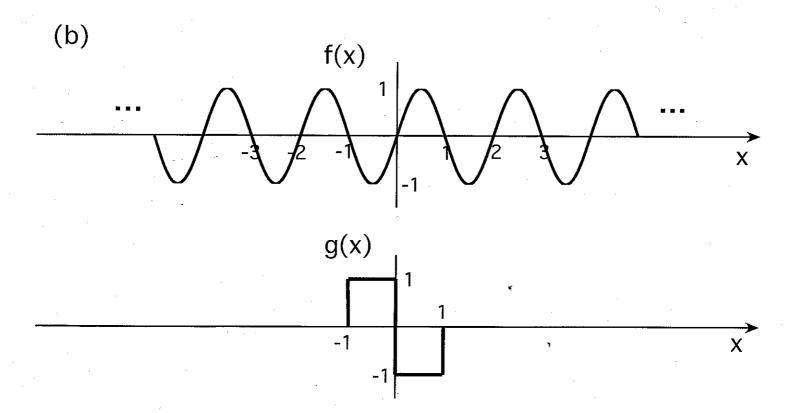
Nishimura 2016

Sketch the following convolutions: f(x) * g(x)

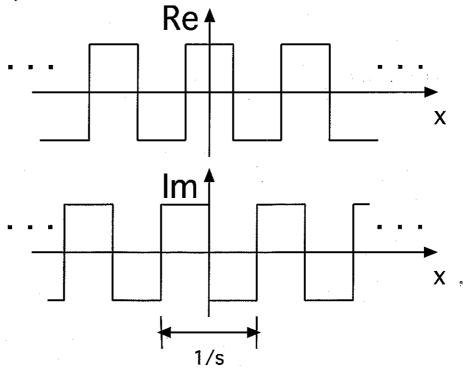




Consider the following transform: $g(x) \xrightarrow{\text{transforms to}} \widetilde{G}(s)$

$$\widetilde{G}(s) = \int g(x) w(x,s) dx$$

where w(x,s) is



Indicate if the following transform properties still apply.

a)
$$g(x - a) \longrightarrow \widetilde{G}(s) \exp(-i2\pi as)$$

b) g(ax)
$$\longrightarrow \frac{1}{|a|} \tilde{G}(s/a)$$

c)
$$g(x) = f(x) * h(x) \longrightarrow \widetilde{G}(s) = \widetilde{F}(s) \widetilde{H}(s)$$