

F11CONVOS Convolution integral for functions y and S

$$X := 0, .001 .. 1$$

$$\text{tol} := .01$$

Function y

$$b2 := .2$$

$$y(X) := \Phi(b2 - X)$$

Function S

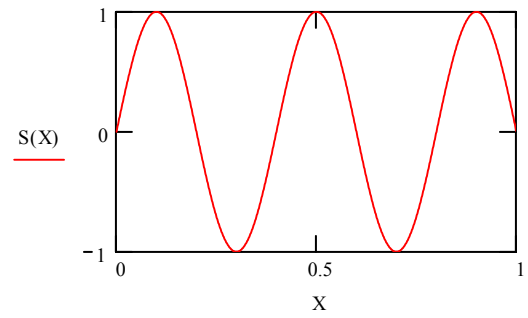
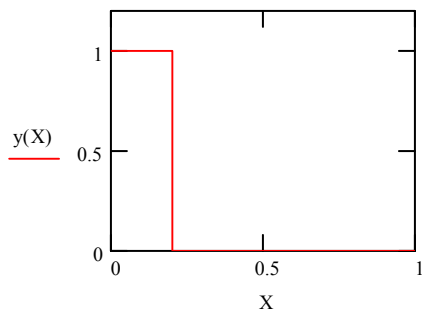
$$f := 800$$

$$a := 1$$

$$\lambda := .0005$$

$$k := \frac{2 \cdot \pi}{\lambda}$$

$$S(X) := \sin \left[\frac{k \cdot a \cdot (X)}{f} \right]$$



$$I(X) := 2 \cdot \int_0^{.5} y(XX) \cdot \left[\sin \left[k \cdot a \cdot \frac{(X - XX)}{f} \right] \right] dXX$$

