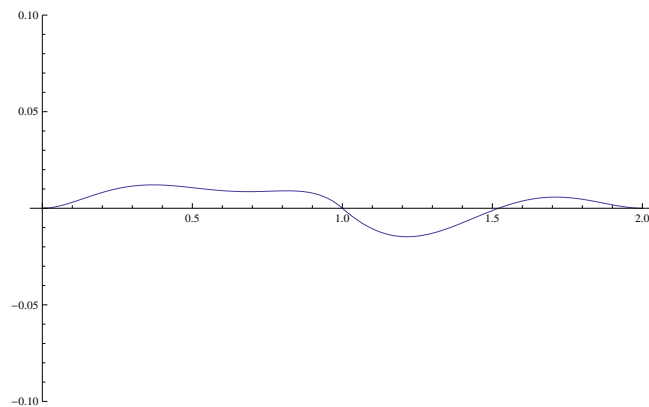
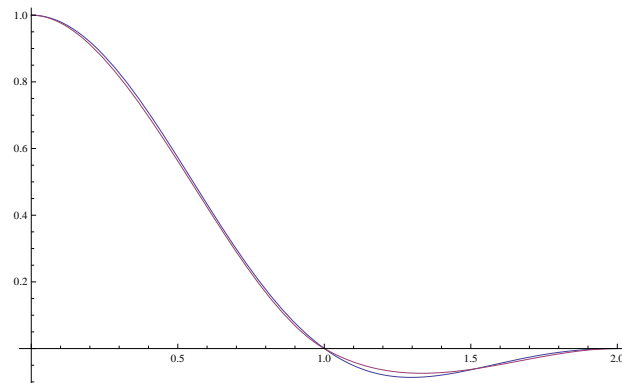


$$W(x) = \begin{cases} 1.5|x|^3 - 2.5|x|^2 + 1 & \text{dla } |x| \leq 1 \\ -0.5|x|^3 + 2.5|x|^2 - 4|x| - 2 & \text{dla } 1 < |x| < 2 \\ 0 & \text{dla } |x| \geq 2 \end{cases}$$

$$L(x) = \begin{cases} \frac{2 \sin(\pi x) \sin(\pi x/2)}{\pi^2 x^2} & \text{dla } |x| \leq 2 \\ 0 & \text{dla } |x| \geq 2 \end{cases}$$

Aproksymacja zadana jest przez konwolucję z kernelami  $K(x) = W(x)$  lub  $L(x)$ :

$$\hat{I}(x, y) = \sum_{m=\lfloor x \rfloor - 1}^{\lfloor x \rfloor + 2} \sum_{n=\lfloor y \rfloor - 1}^{\lfloor y \rfloor + 2} I(m, n) K(x - m) K(y - n)$$



Porównanie  $L(x)$  i  $W(x)$  oraz  $L(x) - W(x)$