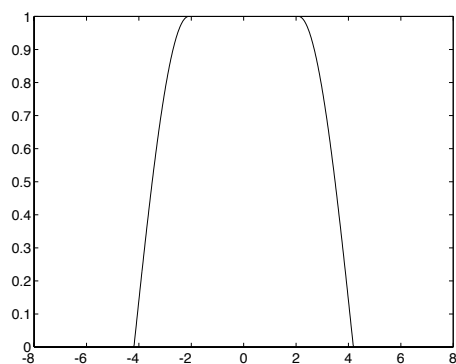


Aufgabe 8.4

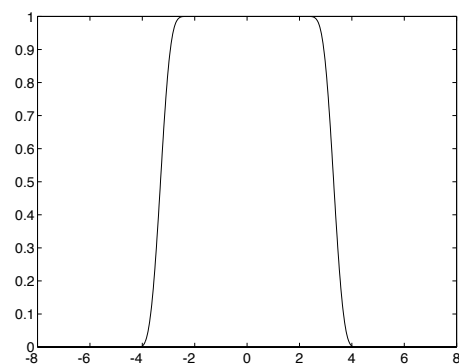
Darstellung des Meyerfensters

$$\hat{\phi}(\omega) = \begin{cases} \cos[\frac{\pi}{2} \cdot v(\frac{3}{2\pi}|\omega| - 1)] & \frac{2\pi}{3} \leq |\omega| \leq \frac{4\pi}{3} \\ 0 & \text{sonst} \end{cases}$$

wobei a) $v(x) = x$ und b) $v(x) = x^4(35 - 84x + 70x^2 - 20x^3)$.



(a)

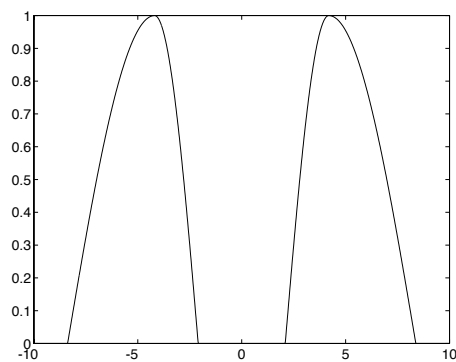


(b)

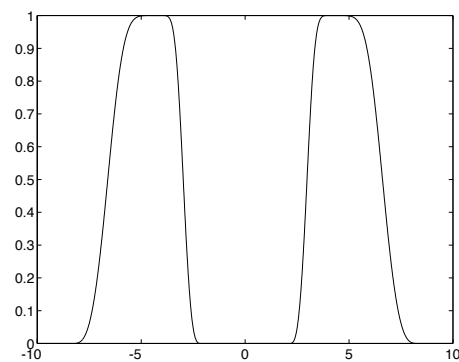
Darstellung des Betrages des jeweils zugehörigen Meyer-Wavelets

$$\hat{\psi}(\omega) = e^{i\omega/2} [\hat{\phi}(\omega + 2\pi) + \hat{\phi}(\omega - 2\pi)] \hat{\phi}(\omega/2).$$

wobei a) $v(x) = x$ und b) $v(x) = x^4(35 - 84x + 70x^2 - 20x^3)$.



(a)



(b)