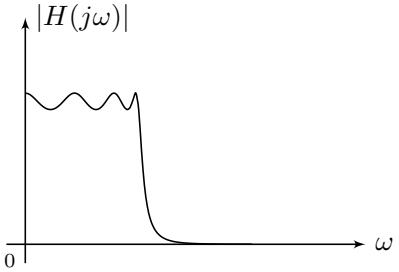
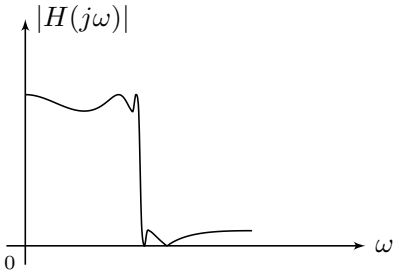
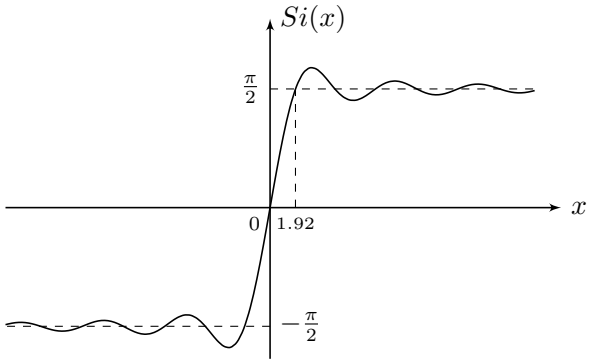
切比雪夫滤波器



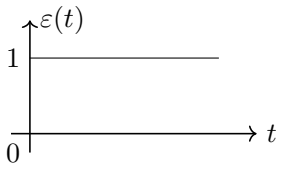
椭圆滤波器

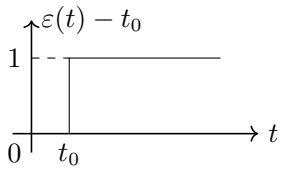


正弦积分函数:

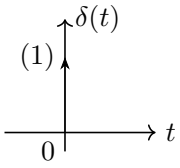


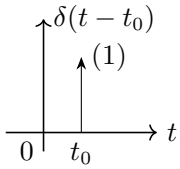
LaTeX 单位阶跃函数 $\varepsilon(t)$



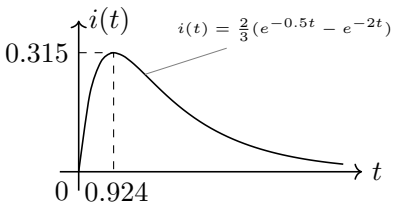


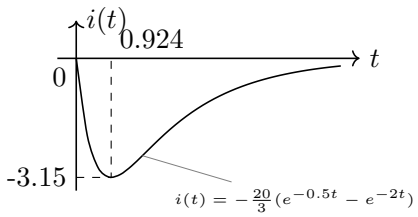
单位冲激函数 $\delta(t)$



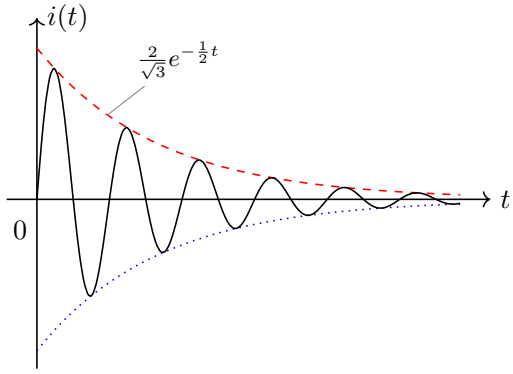


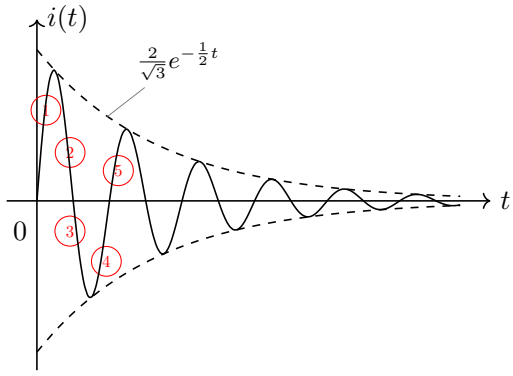
$$i(t) = \frac{2}{3}(e^{-0.5t} - e^{-2t}) \quad i(t) = -\frac{20}{3}(e^{-0.5t} - e^{-2t})$$





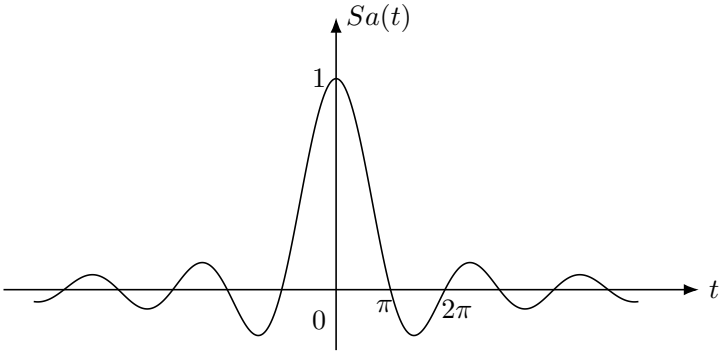
$$i(t) = \frac{2}{\sqrt{3}} e^{-\frac{1}{2}t} \sin \frac{\sqrt{3}}{2} t$$



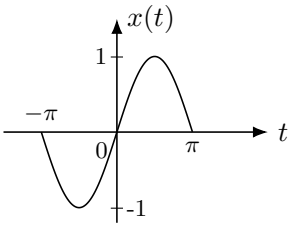


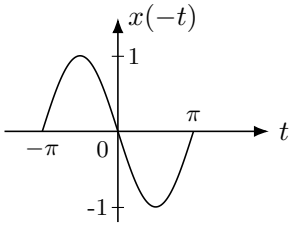
抽样函数

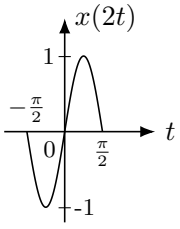
$$Sa(t) = \frac{sin(t)}{t}$$

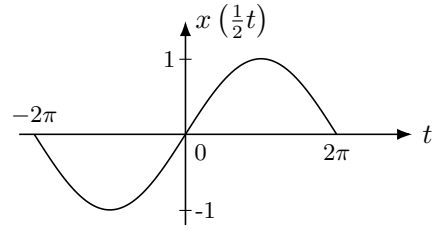


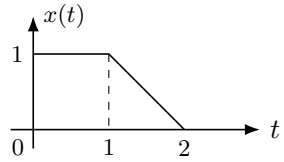
正弦函数

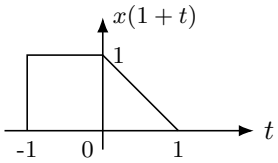


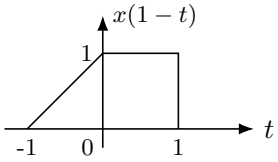


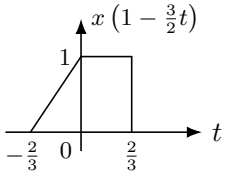


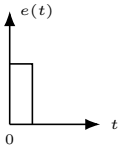

$x\left(\frac{1}{2}t\right)$
1
-2π
0
2π
t
-1

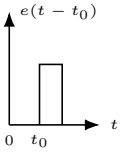

$x(t)$
1
0
1
2
t

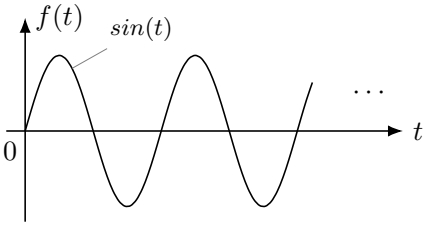

$x(1+t)$
1
-1
0
1
t

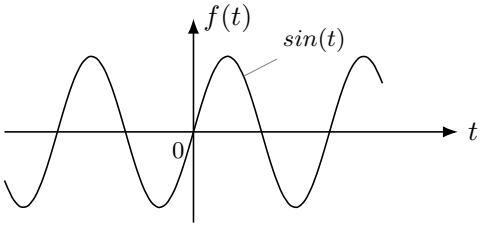

$x(1-t)$
1
-1
0
1
t

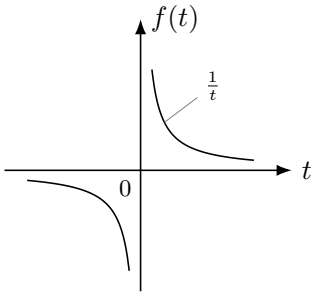

$x\left(1-\frac{3}{2}t\right)$
1
$-\frac{2}{3}$
0
$\frac{2}{3}$
t

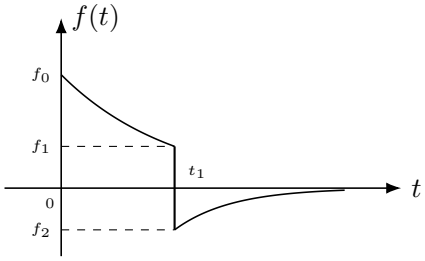

$e(t)$
0
t

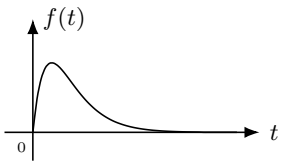

$e(t-t_0)$
0
t_0
t

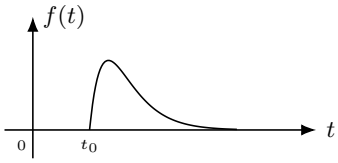

$f(t)$
$sin(t)$
$\cdots$
0
t

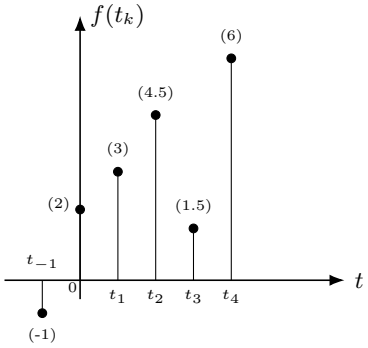

$f(t)$
$sin(t)$
0
t

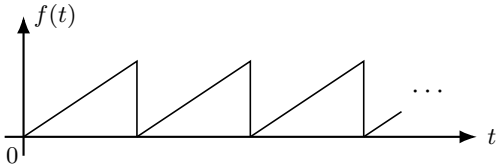

$f(t)$
$\frac{1}{t}$
t
0


$f(t)$
f_0
f_1
t_1
t
0
f_2


$f(t)$
t
0


$f(t)$
t
0
t_0


$f(t_k)$
(6)
(4.5)
(3)
(2)
(1.5)
t_{-1}
0
t_1
t_2
t_3
t_4
t
(-1)


$f(t)$
$\cdots$
t
0

$$i(t) = e^{-\frac{1}{2}t}\left(cos\frac{\sqrt{3}}{2}t - \frac{\sqrt{3}}{3}sin\frac{\sqrt{3}}{2}t\right)\varepsilon(t)$$

$$u_L(t) = \delta(t) - e^{-\frac{1}{2}t}\left(cos\frac{\sqrt{3}}{2}t + \frac{\sqrt{3}}{3}sin\frac{\sqrt{3}}{2}t\right)\varepsilon(t)$$