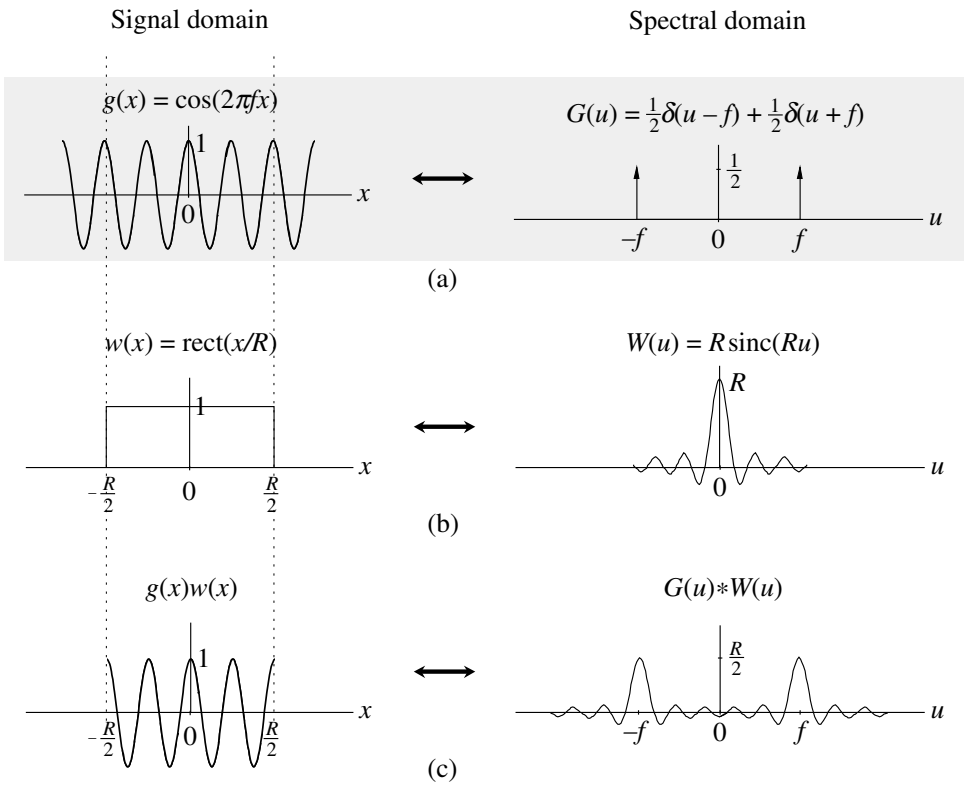
Signal domain
Spectral domain
g(x) = cos(2πfx)
G(u) = ½δ(u − f) + ½δ(u + f)
1
x
0
½
u
−f
0
f
(a)
w(x) = rect(x/R)
W(u) = R sinc(Ru)
1
x
R
u
−R/2
0
R/2
0
(b)
g(x)w(x)
G(u)∗W(u)
1
x
R/2
u
−R/2
0
R/2
−f
0
f
(c)