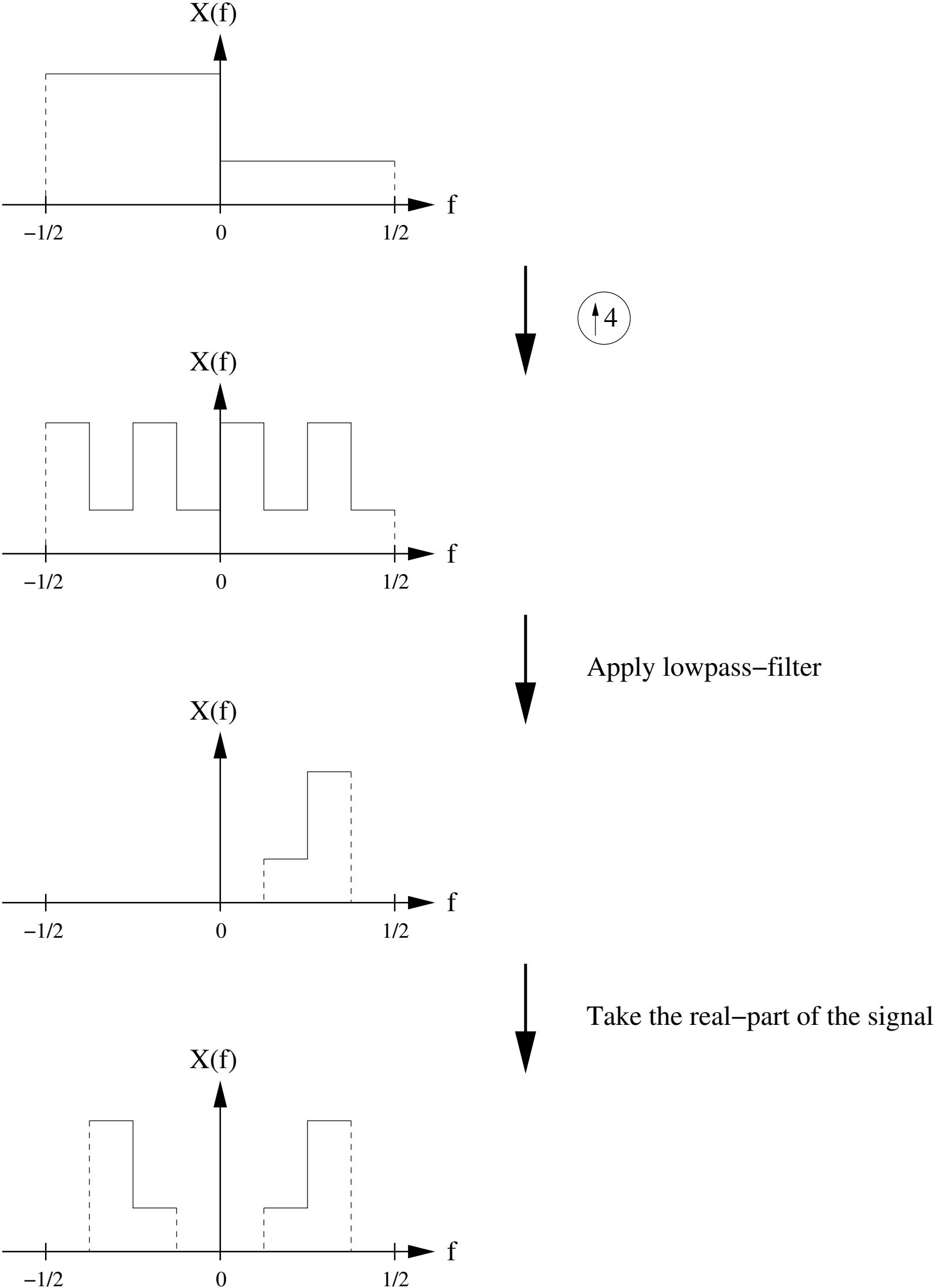
X(f)
f
−1/2
0
1/2
↑4
X(f)
f
−1/2
0
1/2
Apply lowpass−filter
X(f)
f
−1/2
0
1/2
Take the real−part of the signal
X(f)
f
−1/2
0
1/2