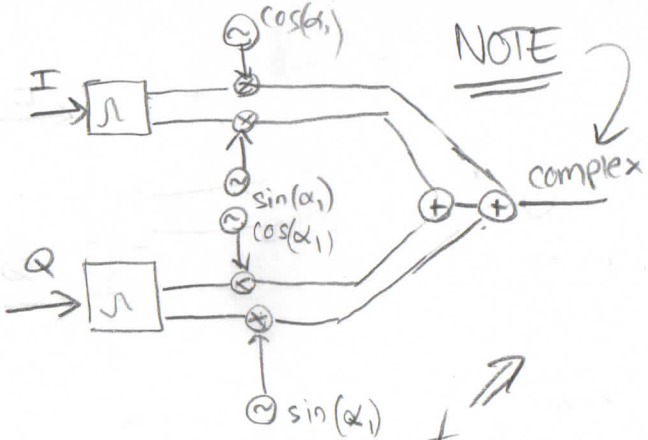
CONVOLUTION for each signal (i) we multiply

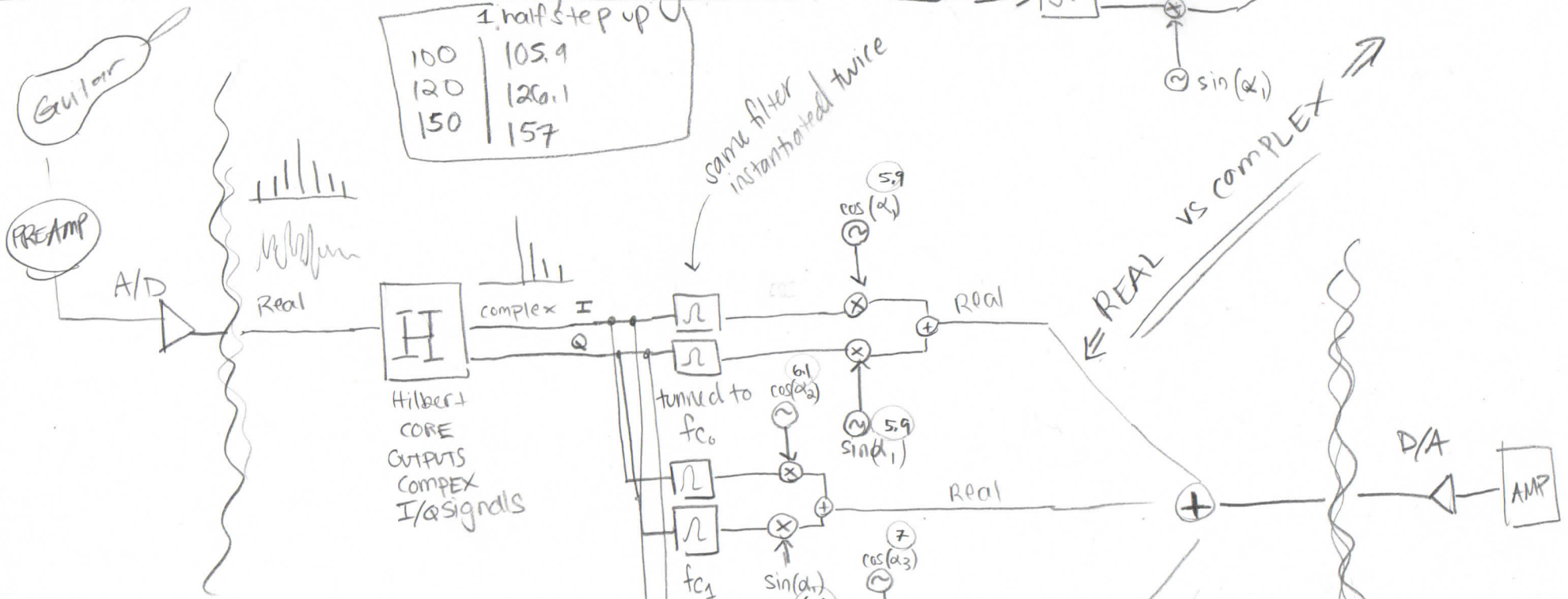
filter(i) + runningsum

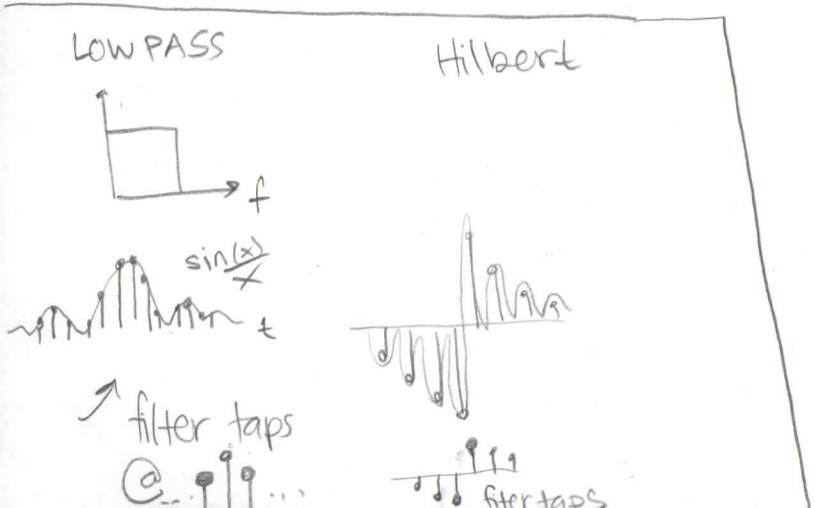
filtered output = $[s(i) * f(i)] + [s(i) \times f(i+1)] + [s(i) \times f(i+2)] + \ldots$

then add it to $[s(i+1) \times f(i)] + s(i+2) \times f(i+1)] + \ldots$ all the way through



1 half step up	
100	105.9
120	126.1
150	157





(36 filters)