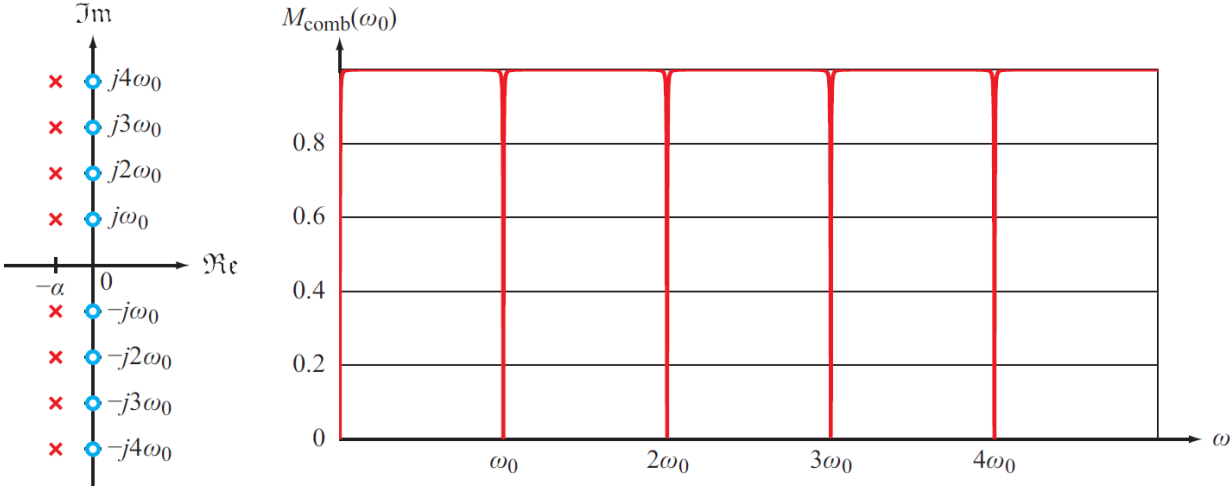


**Concept Question 6-12:** Why do comb filters have that name?

Because their frequency response resembles a comb, as illustrated by Fig. 6-30:



**Figure 6-30:** Magnitude spectrum of a comb filter with  $n = 4$  and  $\alpha = 0.017\omega_0$ .