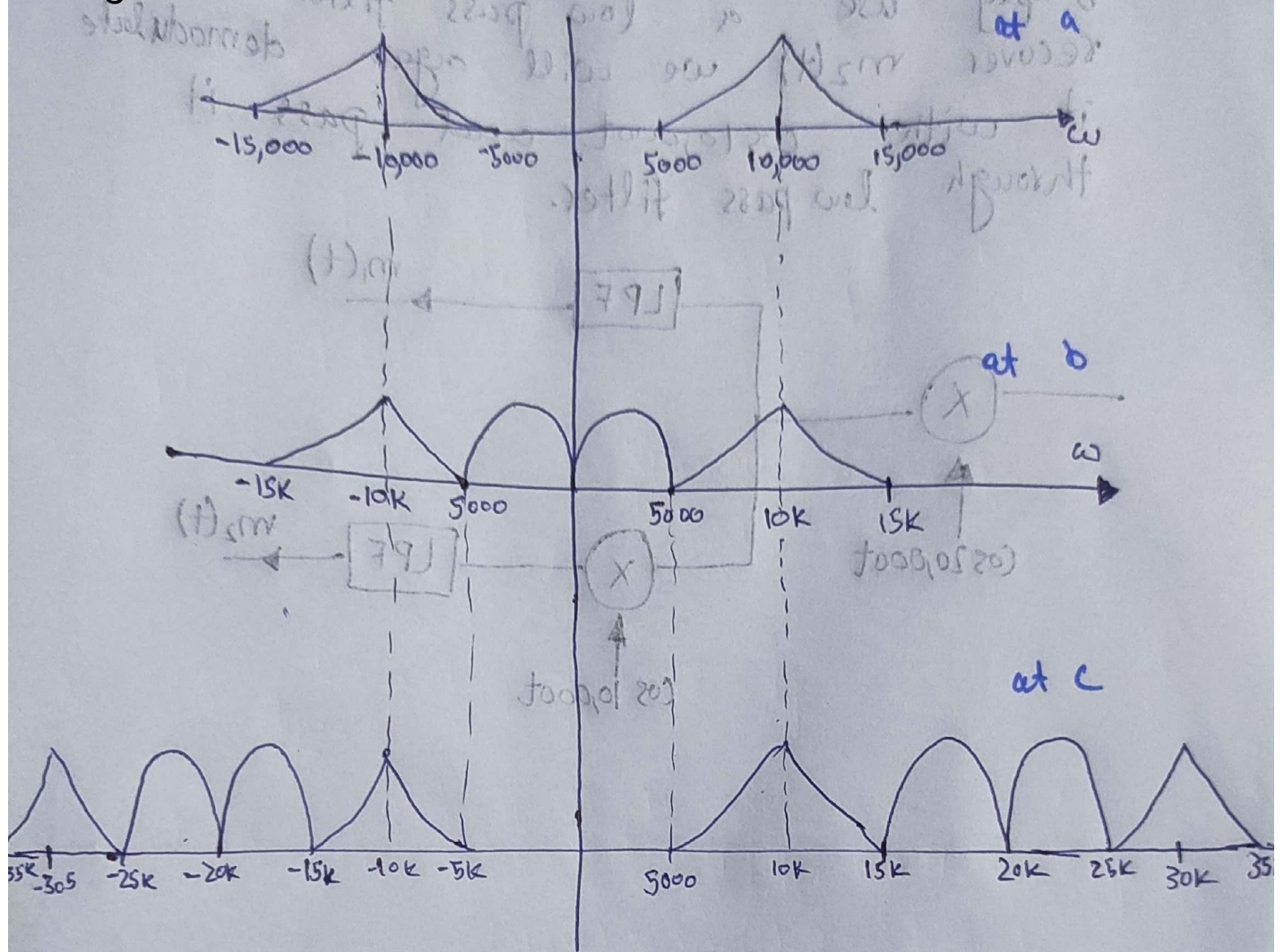


Assignment 2 Q2

Spectra at a, b and c.



Part b:-

The bandwidth of channel must be at least $30,000 \text{ rad/s}$ i.e. from $5,000$ to $35,000 \text{ rad/s}$.

Part c:-

At receiver's end, we will perform the inverse operation of Modulation i.e. Demodulation. So, first we will demodulate the output at c by $\cos 20,000t$ then we will get the spectra of (b) and some high frequency