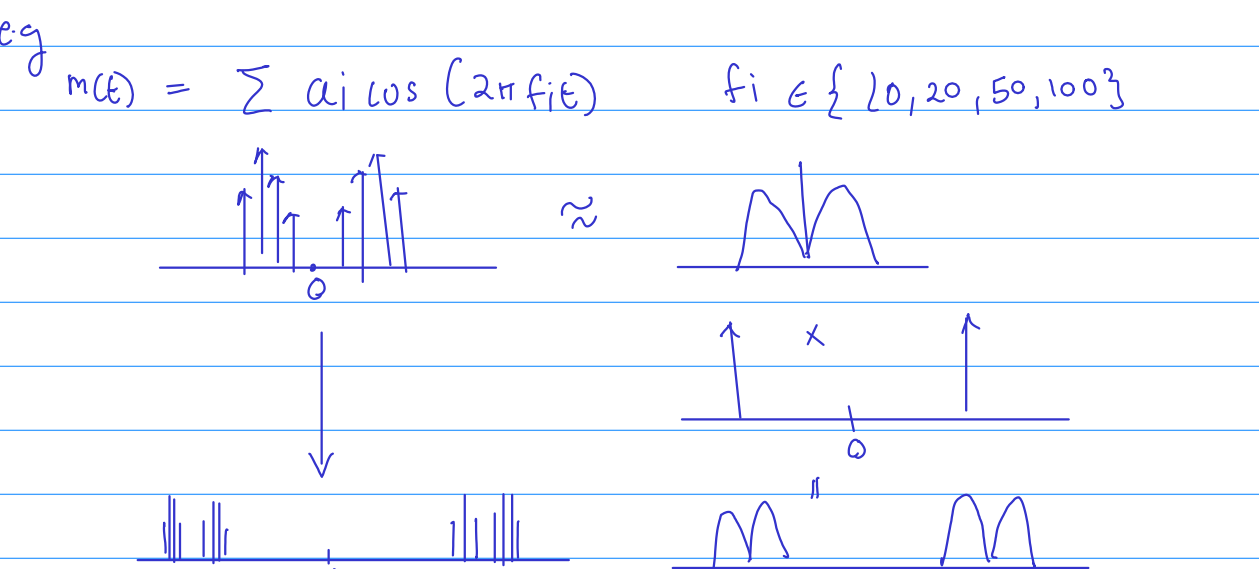
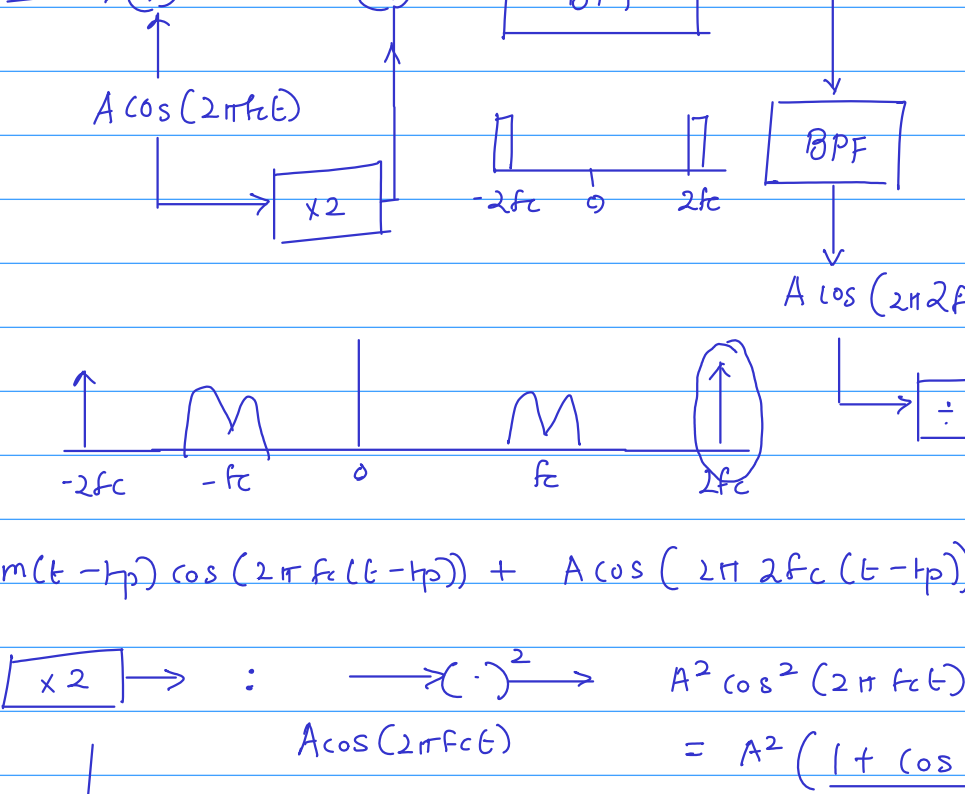


- 1) Double sideband suppressed
- 2) Plain amplitude modulation or

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- Block diagram of a coherent demodulation system:
- Input signal $m(t)$ is multiplied by $\cos(2\pi f_c t)$ in a multiplier block.
 - The result is then passed through a BPF (Bandpass Filter).
 - The output of the BPF is multiplied by $\cos(2\pi f_c t + \phi)$ in a second multiplier block.
 - Finally, the result is passed through a LPF (Lowpass Filter) to produce the demodulated signal $\hat{m}(t)$.



another way of doing DSBSC (DSB)
pilot signals/carriers:



→ $\boxed{\div 2}$ → $A \cos(2\pi(2ft))$

A hand-drawn diagram of a simple face on lined paper. It consists of two small circles for eyes and a curved line for a mouth, all drawn in blue ink.

