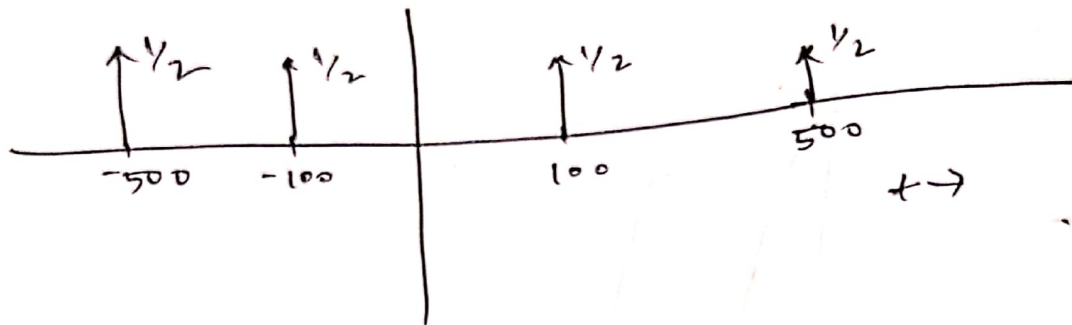


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(i)

$$m(t) = \cos 200t + \cos 300t$$
$$= \frac{1}{2} \cos 500t + \frac{1}{2} \cos 100t$$

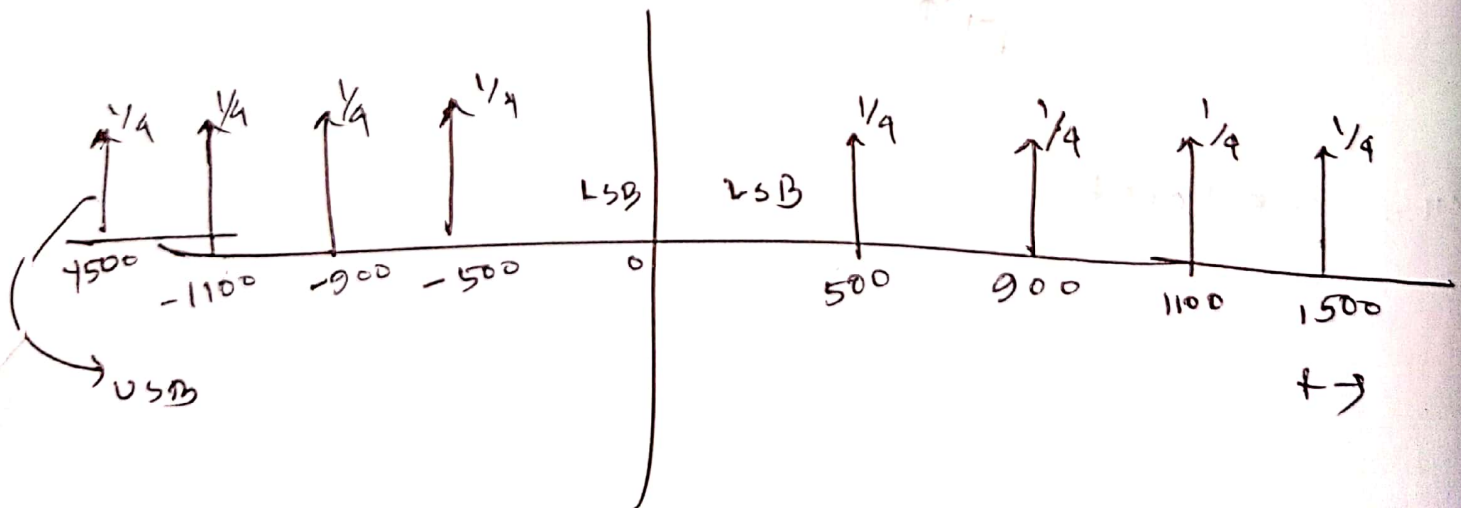


(ii)

Carrier: $\cos 1000t$

Q1

DSB-SC



(iii) Demodulation

