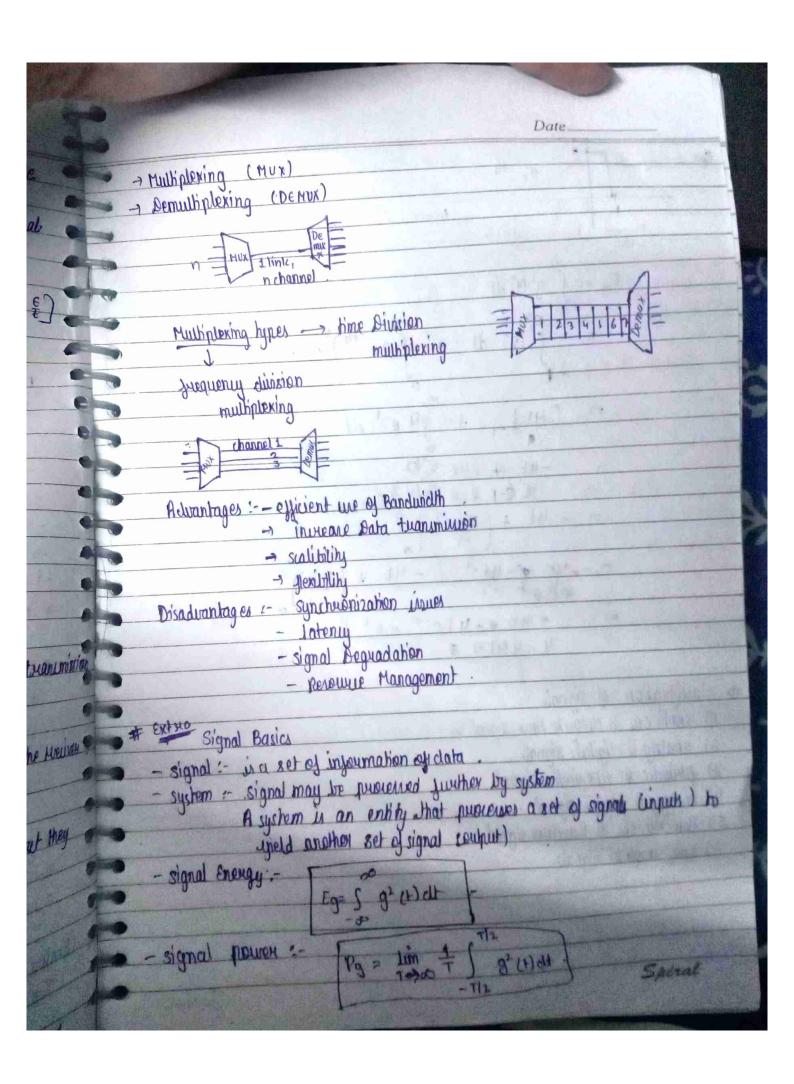
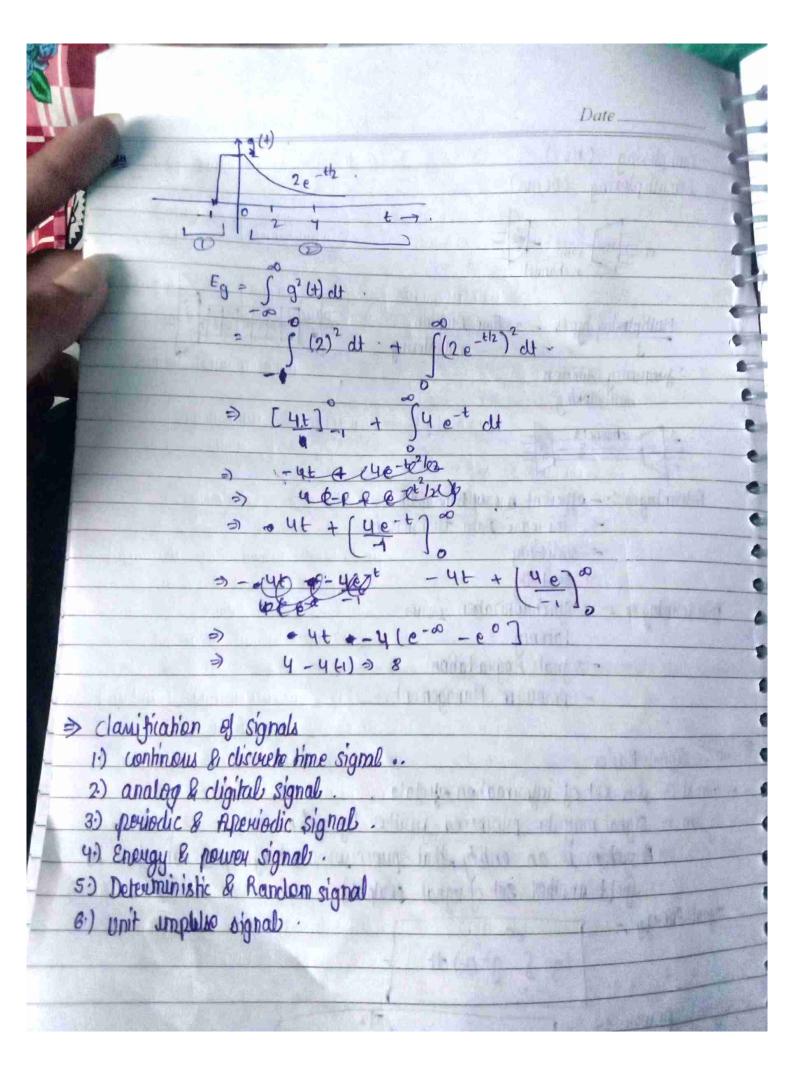
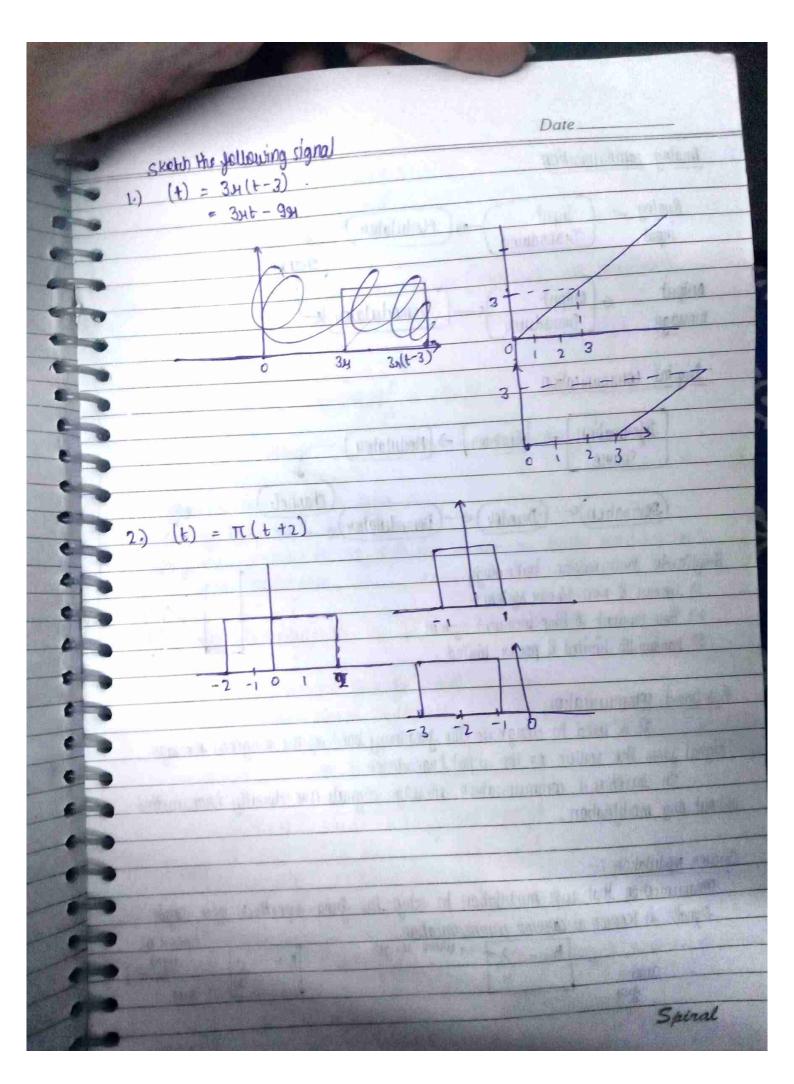
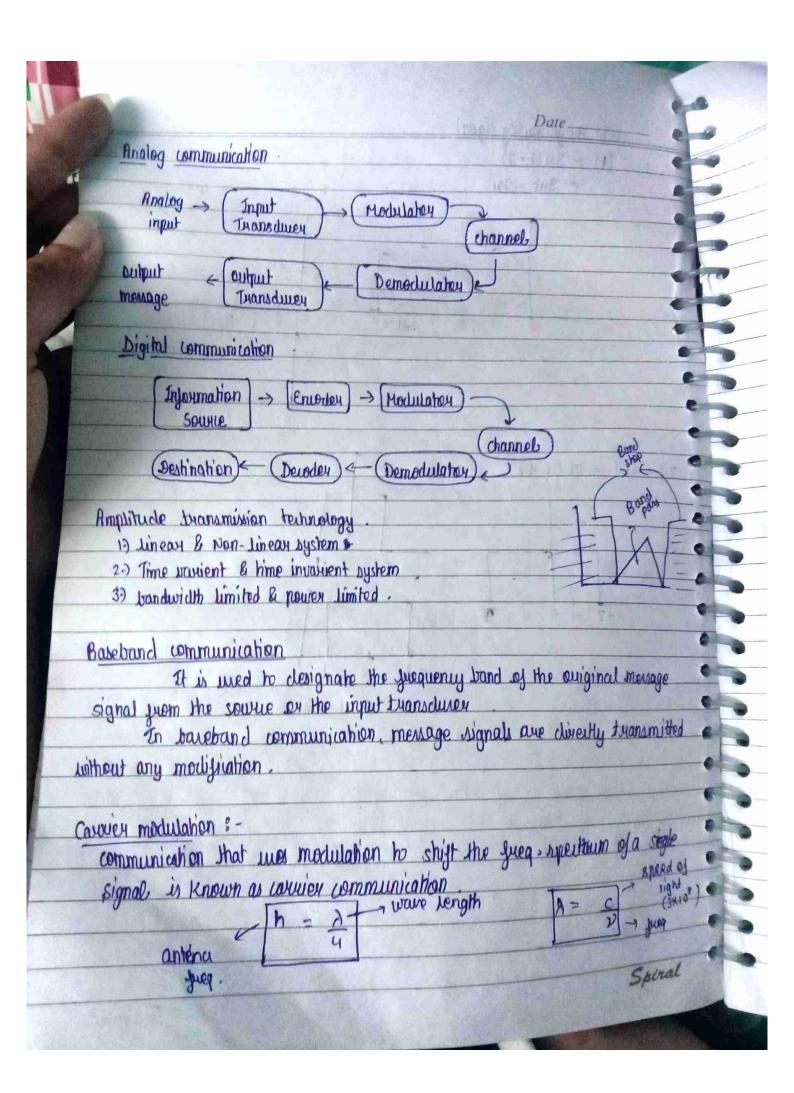
Data Transmission Methodologies.
communication system
→ Analoge => sin wave >> continous
1 Digital = continue = dicinete data = 001
- Wined - coxial cable , truited cable, fiber cable
-) Winelaw => satellite rammunication intermet et
The American Control of the Control
Noise: An unwanted signal that interjeues with the communication or
measurement of another signal.
Types of Noise
- Acoustic Novie -> while Noise
- Eleituomagnetic Novie - volouved Noise
- Elestrostatic Noise - impulsive Noise
> channel Noise - Transient noise pulses Noise -> preversing Noise -> flicker Noise Noise
> processing Noise > flicker Noise Noise
- Massisana losise
Distortion: - any change in a signal that alters the basic waveform or the
relationship between warians frequency components.
SCHOOL STEEL
Two types was compared to the same of the
-> Lineau Distoution -> Non-Lineau Distoution
and it about the best appropriate the same of the same
- Regenerative repeaters: There are placed along the communication path of a
digitial system at distance shout enough that noise and distantion remain within
a limit.
*Analog to digital convention
Tur steps! - 1-) Sampung
27 Augntization . Spiral

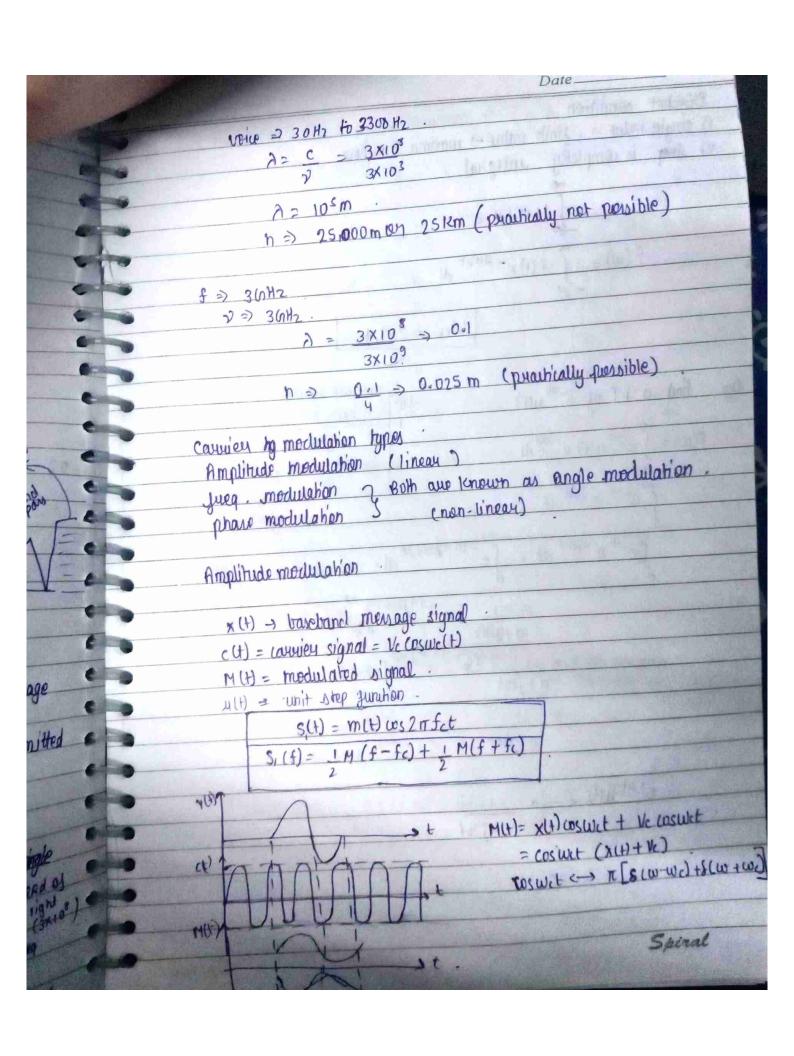
Signal Bandwidth :- None all
Signal Bandwidth: -> rang of frequency that it can transmit with reasonable fictelity (bandwidth).
-> channel brandwith whould
-> channel bandwidth should be genate greater than a signal
signal pouvel (Pe):- dual role in transmission of information:
· Signal power (Pd):- dual role in transmission of information · [P= &]  · related to quality of transmission  (quality of transmission of particles)
C J - J - STOOLLAND COL. PS.
The state of the s
Use of les Bandwidth if we want to inveave ps
B.W &C 1
* SNR -> Signal to Noise Ration
SNR = Psianal
Proise
· Modulation :- converts information signal into a form suitable for trumminion
over a channel.
Demodulation: reverse this perous surrousing vicinial signal at the usular
the state of the s
modulation: superimposing high frequency to low.
modulation: superimposing high frequency to low.  — In courier signal, the signal contains no injournation trut they
have phase amplitude & prequency.
Types -
y a series of the series of th
Amplitude & prequency
phase.
Spera

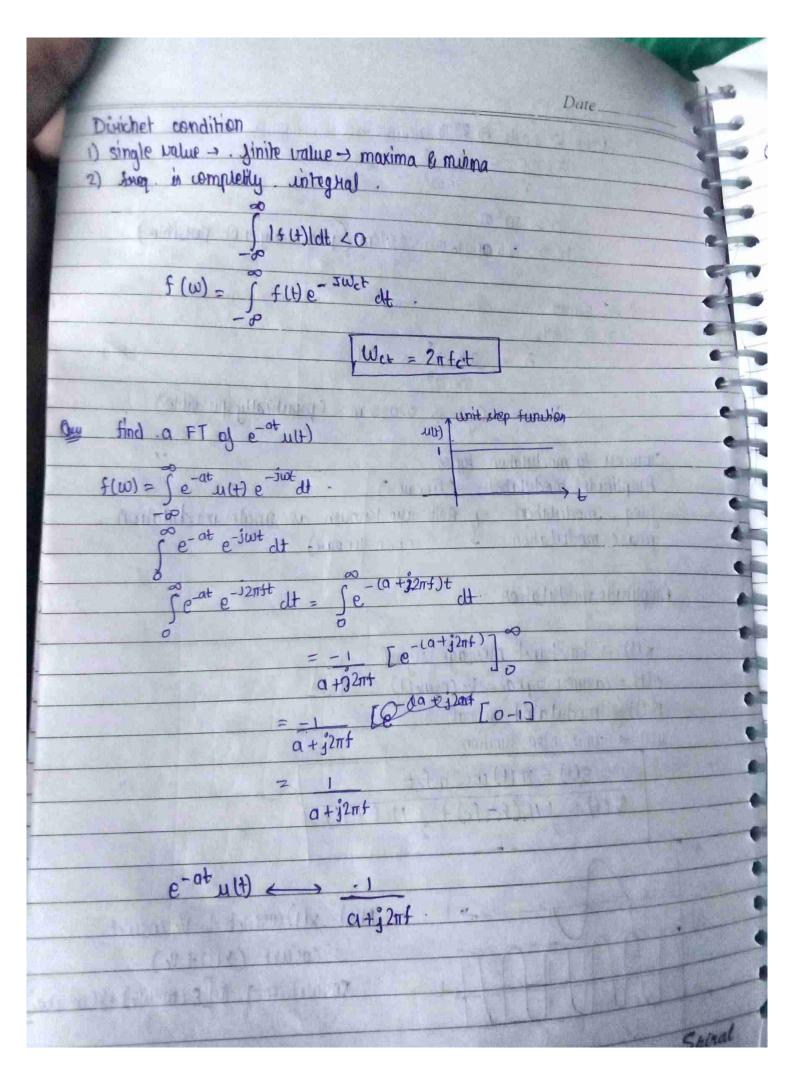


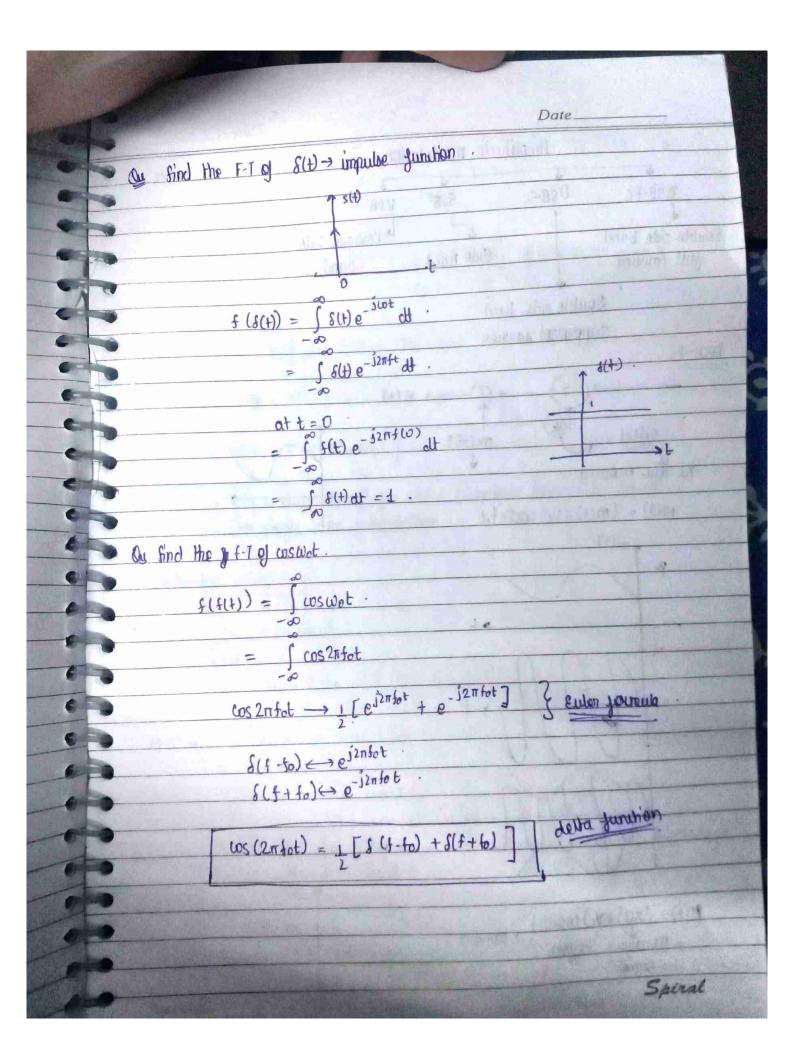


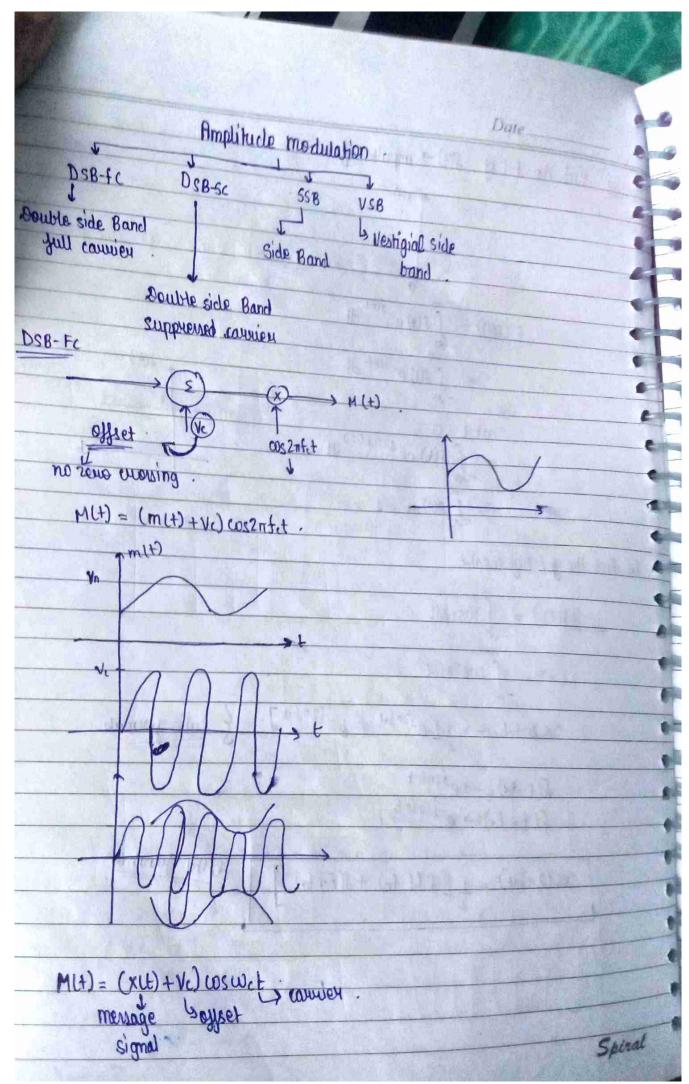


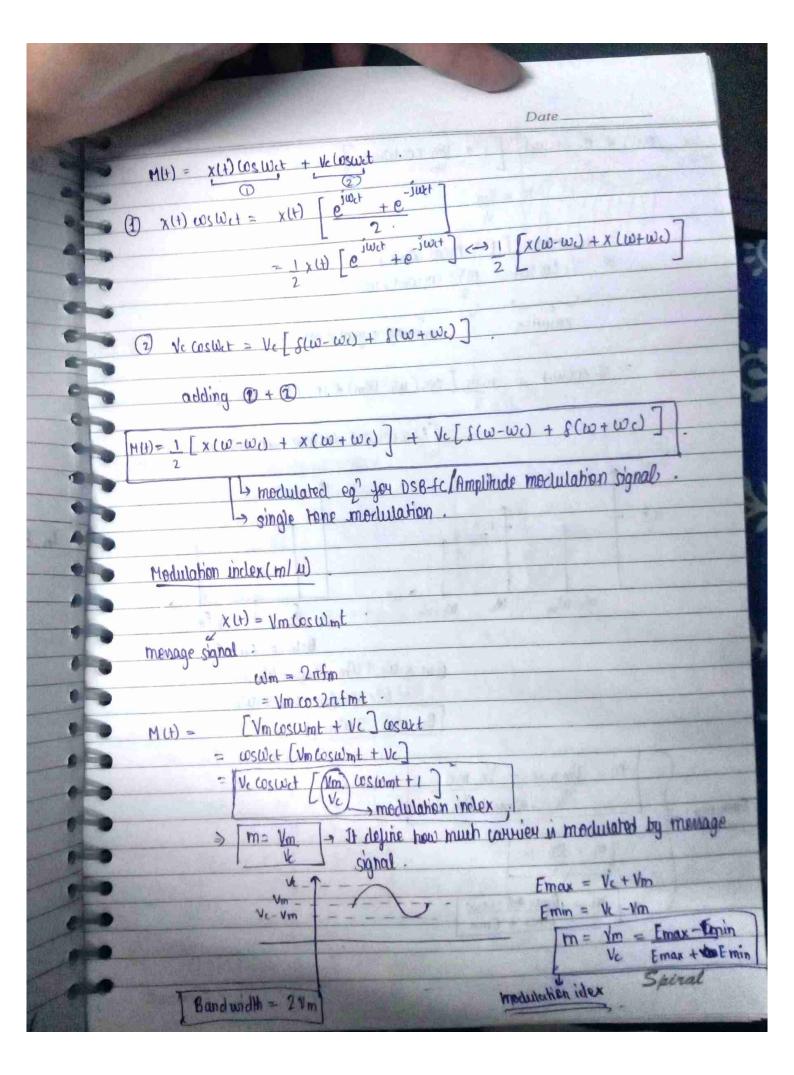


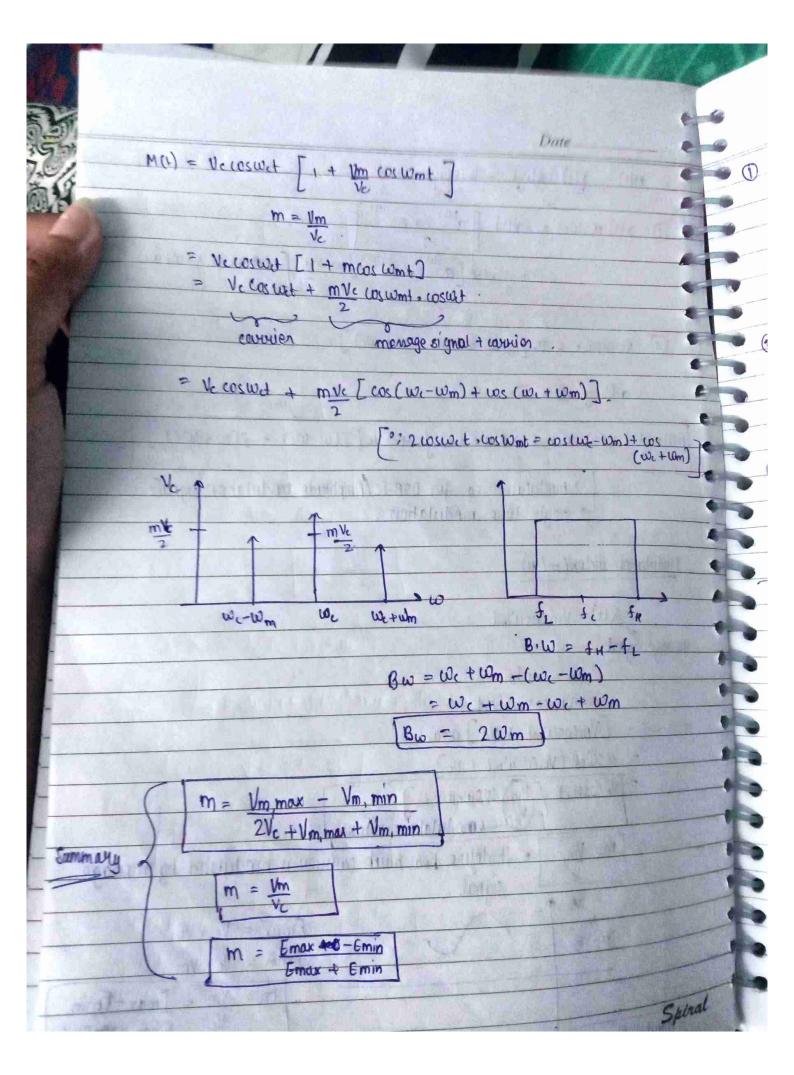


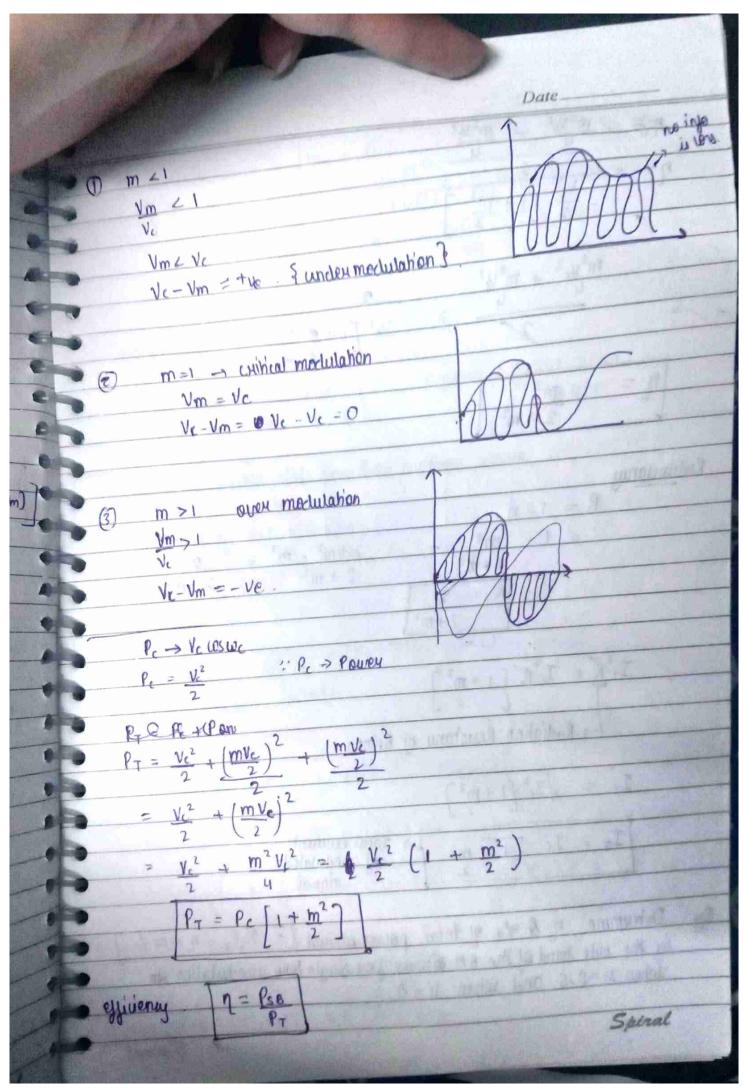


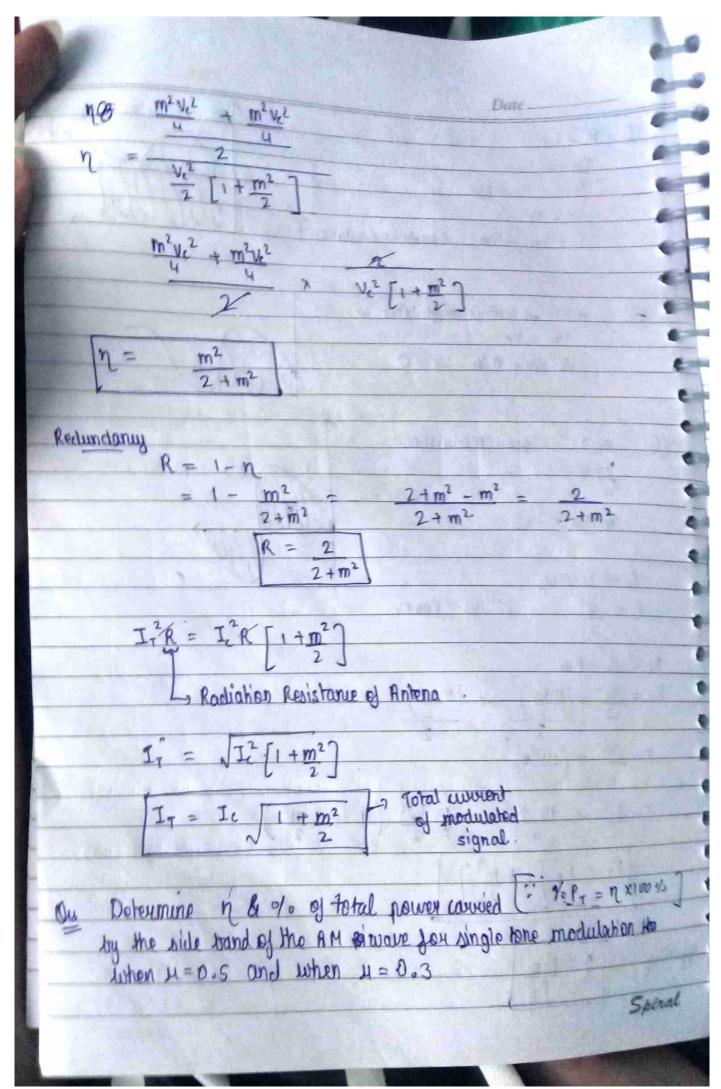


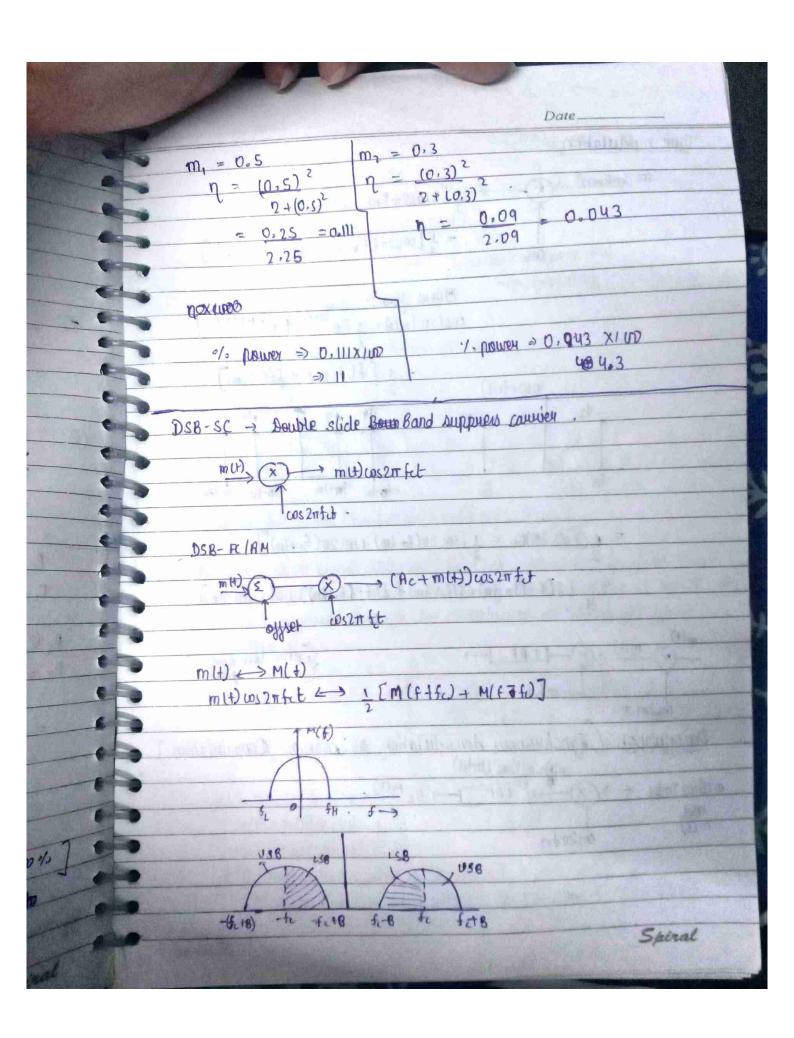


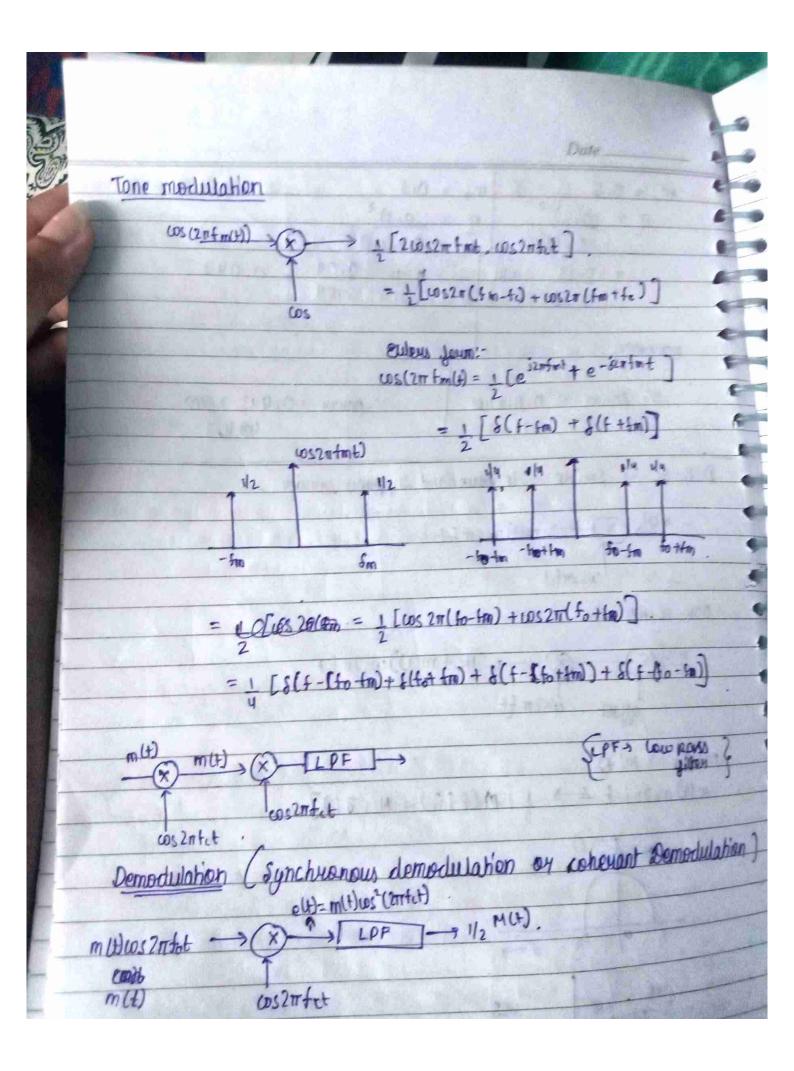


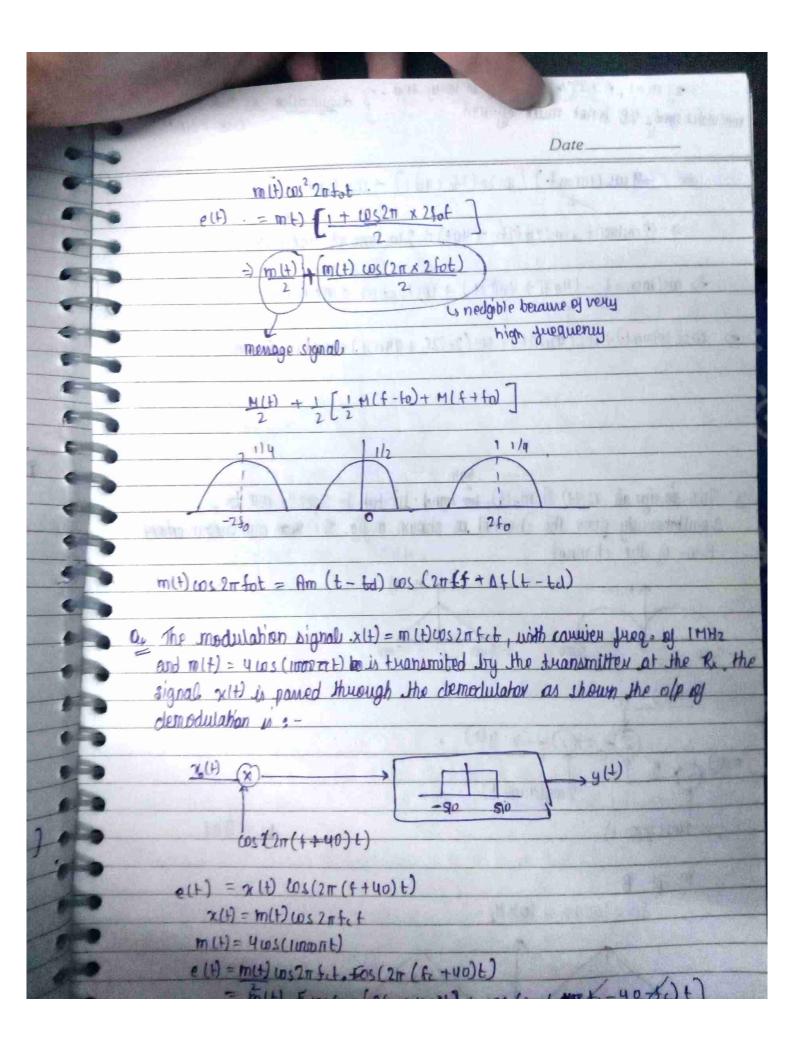


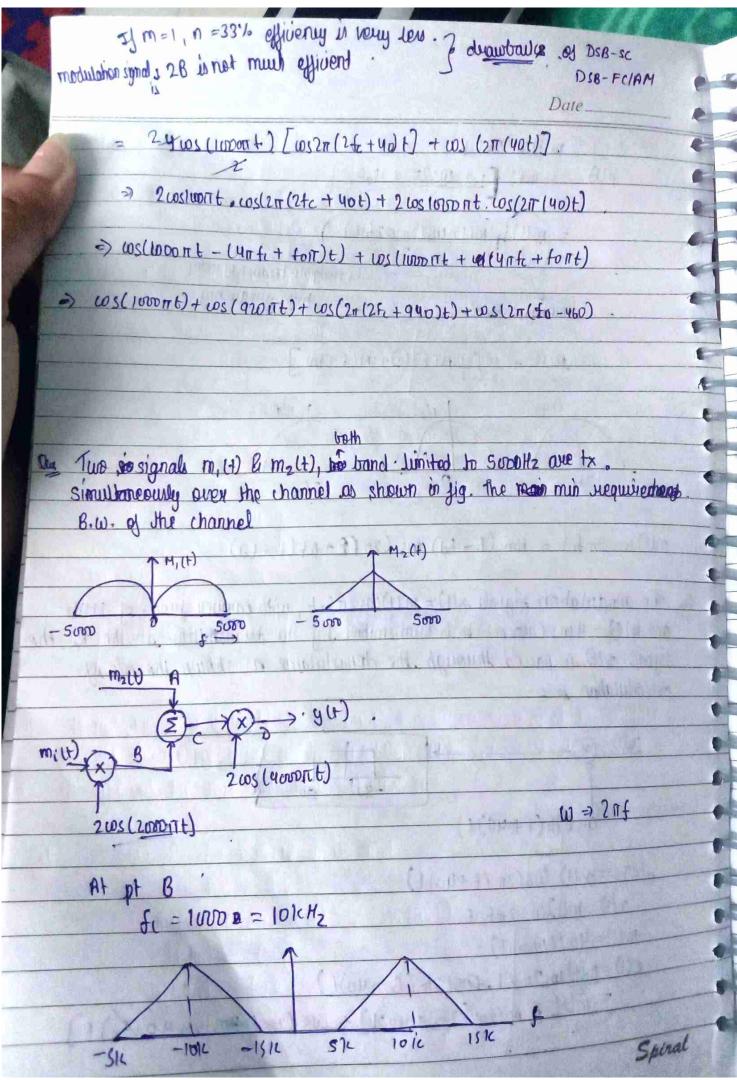


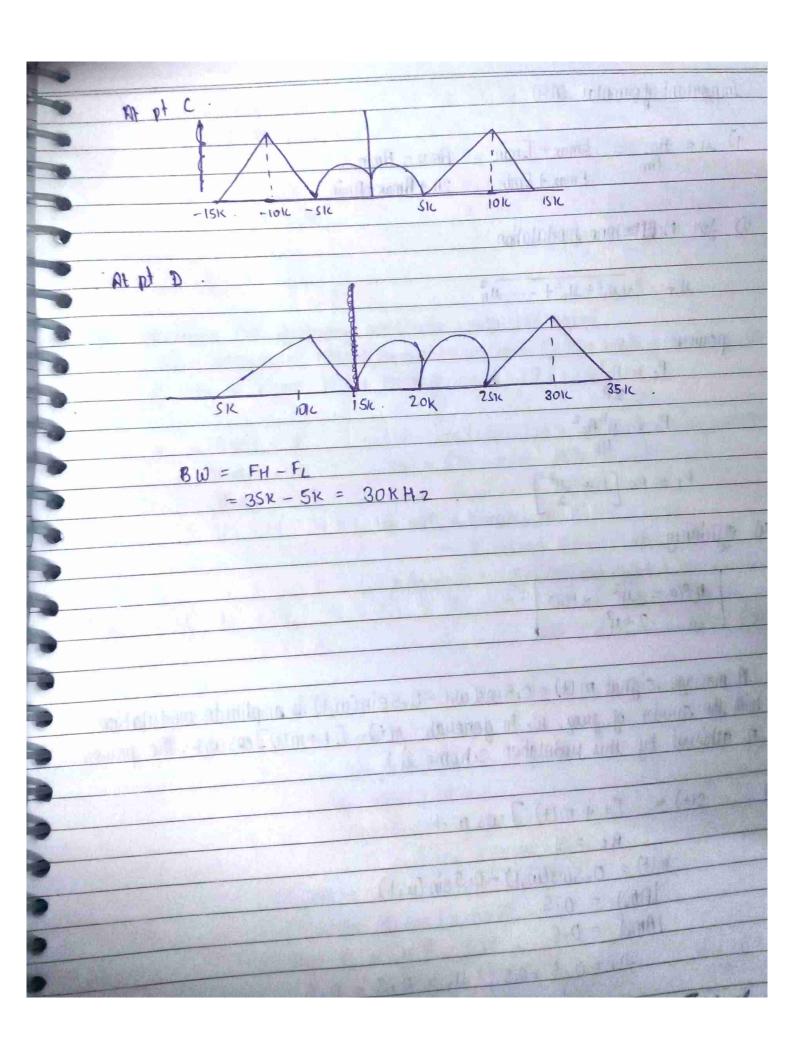












Date

Important formulas (AM)

1) 
$$\mu = Ac = \frac{E_{max} - E_{min}}{A_{min}} = \frac{A_{max} - A_{min}}{A_{min}}$$
 $E_{max} + E_{min} = \frac{A_{max} - A_{min}}{A_{min}}$ 

2) Joy Multipe hone medulation.

$$M_T = \sqrt{N_1^2 + N_2^2 + - - N_0^2}$$

3) power

$$P_{c} = \frac{Ac^{2}}{2R}$$

$$P_S = y_1^2 A_c^2$$
 $4R$ 

4) efficiency

$$\eta = \frac{11^2}{2+11^2} \times 100$$

Que A merrage signal m(t) = 0.5 ws(w,t)-0.5 sin(w,t) is amplitude modulation with the carrier of gree. we to generate set) = [1+m(t)] ws wet. The power of achieved by this production scheme is?

$$Sol Sut) = [1 + m(t)] cos w dt$$

$$Ac = 1$$

m(+) = 0. Sws(w,+) - 0. 5 sin (w.+)

Spiral

