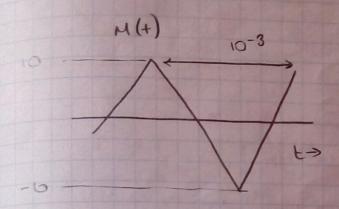
1) AM signal -> [A+m(+)] cosuct



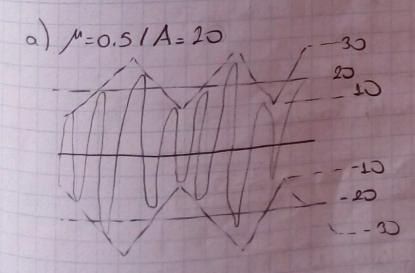
a) 
$$M = \frac{mP}{A}$$

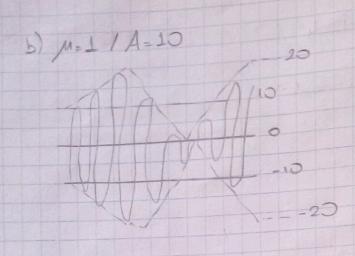
a) 
$$\mu = \frac{mP}{A}$$
 0.6=  $\frac{10}{A} \sim A = 20$ 

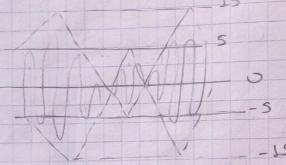
b) 
$$\mu = 1 = \frac{mp}{A} \sim A = 10$$

c) 
$$\mu = 2 = \frac{mp}{A} \sim A=5$$

d) 
$$w=\infty=\frac{10}{A}\sim A=0$$



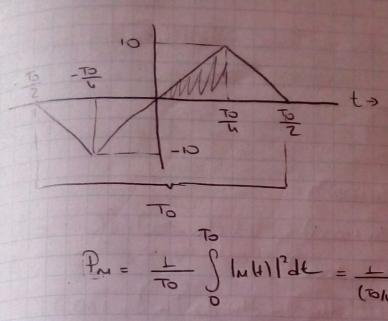




d) M=00 1A=0

$$M = \frac{mp}{A} = \frac{10}{A} = 0.8 \rightarrow A = 12.8$$

Parier = 
$$\frac{A^2}{2} = \frac{(12.8)^2}{2} = \frac{78.125}{}$$



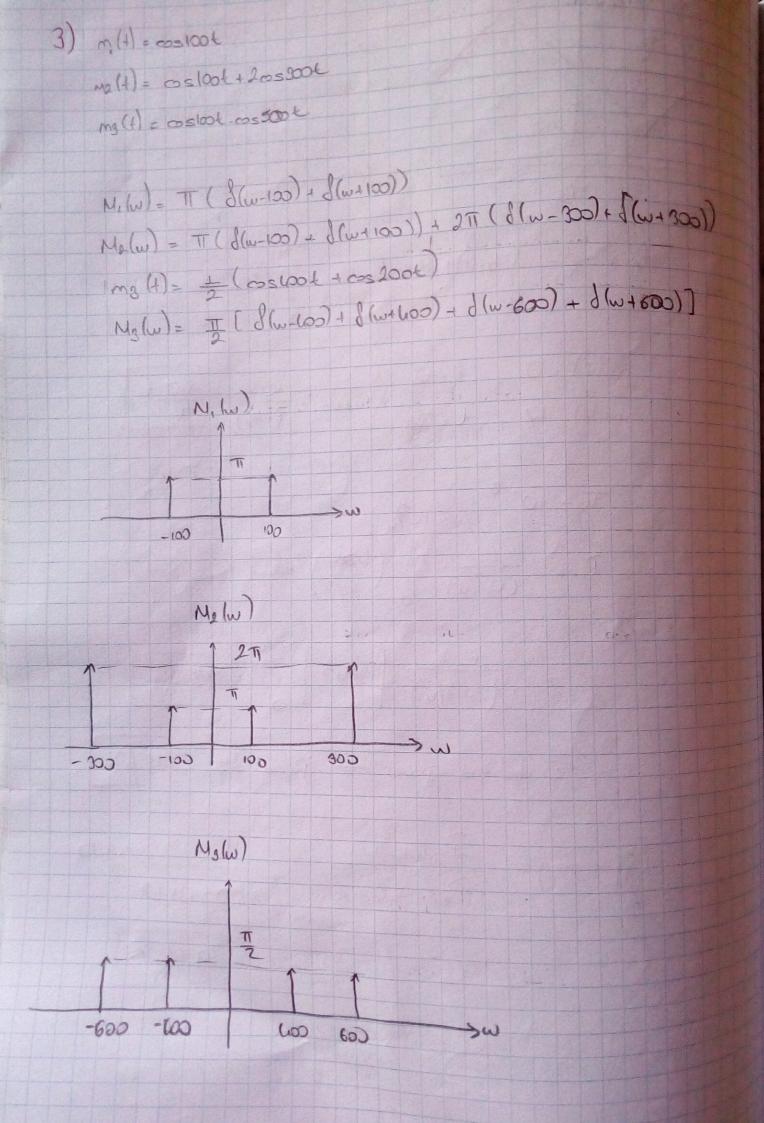
$$m(t) = 0$$
,  $C = t$   $m(t) = \frac{10}{t} = \frac{10}{t}$   $m(t) = \frac{10}{t}$ 

$$T_0 = 10^{-3}$$

$$10^{\frac{7}{4}}$$

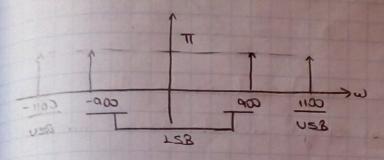
$$P_{M} = \frac{L}{(10^{-3}/L)} \int_{0}^{10} \left(\frac{LOL}{10^{-3}}\right)^{2} dL$$

$$= \frac{1}{(10^9/u)} \left[ 20t^2 \right]_0^{3/4} = 33.34$$



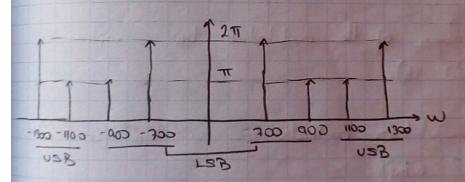
= 2. 000 100 t. 00 1000t

(058, (w) = 2. = [M, (w-1000) + M, (w+1000)]



(assg (1) = 2mg (1) casionot
= 2. [cos 100t + 200 300t]. cos noot

(DSB2(W) = 2- 1/2 [M2(W-1000) + M2 (W+1000)]



(20083 (t) = 2 mg (t). cas 1000t (10583 (w) = 2. 1 [Mg (w-1000) + Mg (w+1000)]

