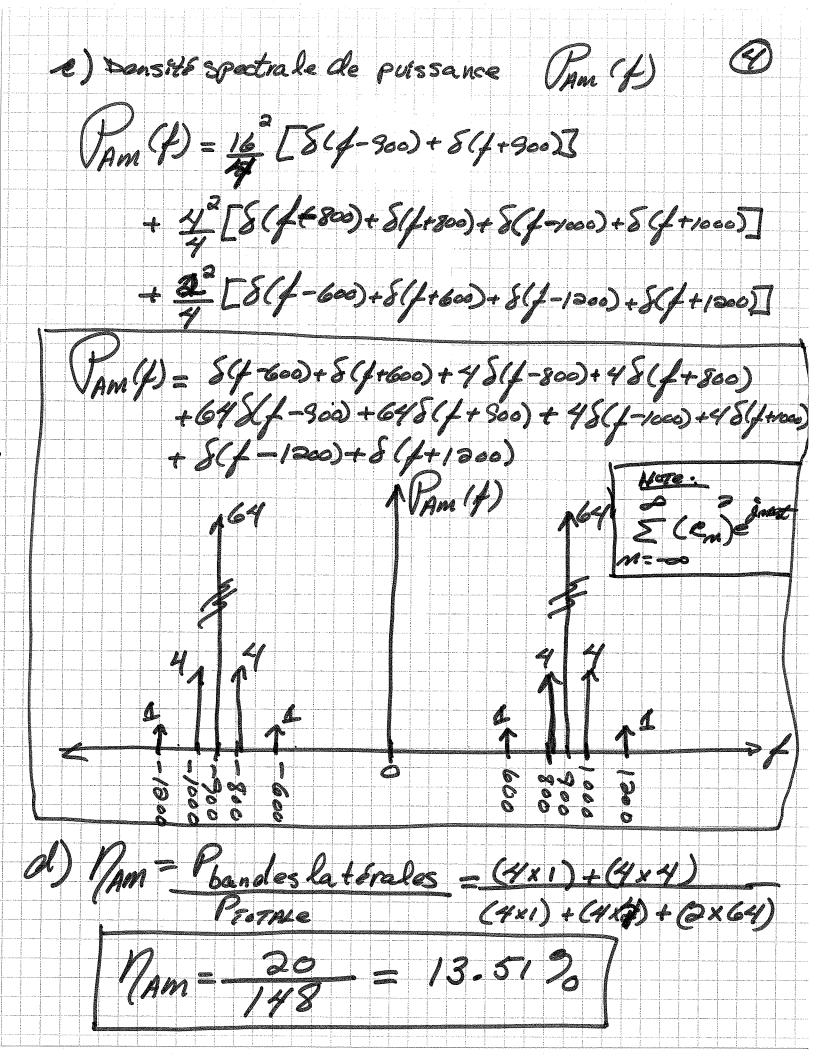
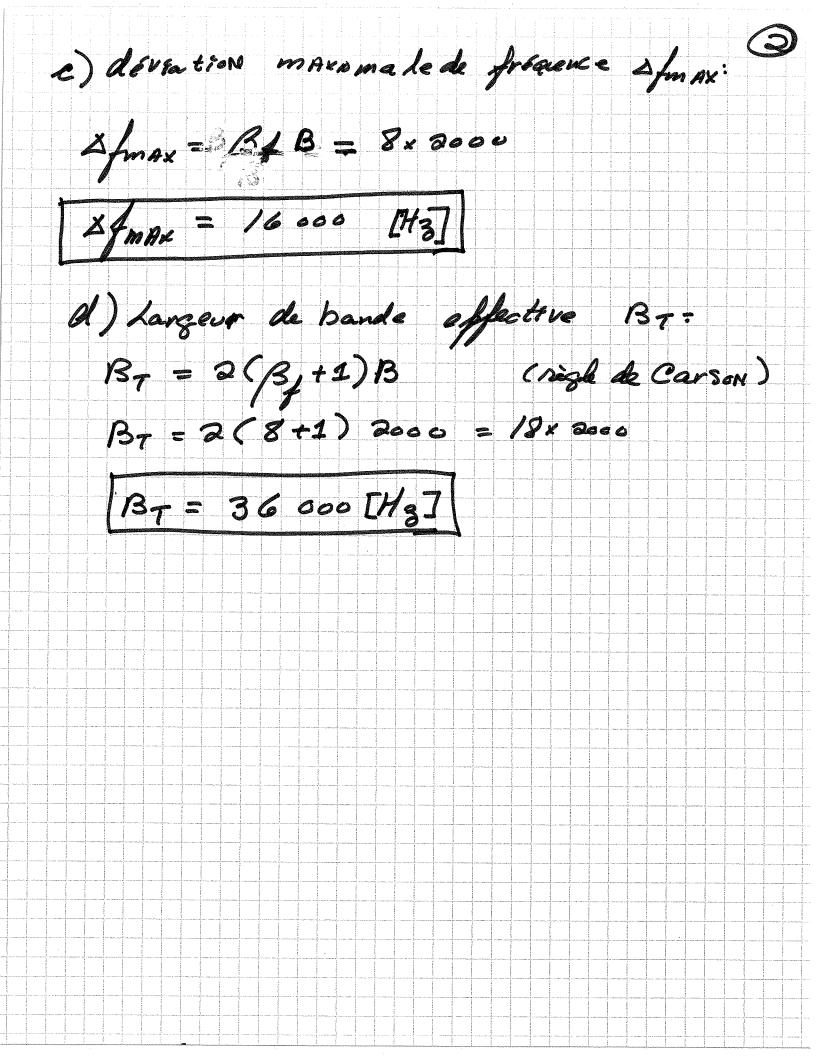


vérification: Aprile) = Ac [1+ka miles] cos (exife) 1 Am (1) = 16 [1+4 [COSC600TH)+2005200TT2] GOS (1800TH) AMM (+) = 16 COS (1800TI+) + 4 COS (600TI+) COS (1800TI+) + 8 COS (300TI+) COS (1800TI+) Am(t) = 16 as(1800 Tt)+4 [as(1200 Tt)+ cs(2400 Tt)] + 8 [Ges C/660 Tt) + Ges (8000Tt)] SAM(+)= 16 as (1800 Tt) + 2 as (1200 Tt) +2 cos (8400TTE)+4 cos (1600TTE) + 4 (20 (2000114)



Question 3: m(t) = 25 sine (4000t) β<sub>f</sub> = 8 et L(t) = 400 cm (2400 πt) a) Sensibilité de la modulation FM Dj. By By = Afmer on Afma = Of mac[Imite] or imax[]25.ine(1006t)]] = 25
et M(f) = 7 [m(x)] = (25) TT (400) => B = 2 000 [H3] = Bf m [Im(t)] b) AFM(+)= Ac Cas [27/et+ b) Smarder] DFM (t) = 400 Cas [(2x107112)+ 128011 (25 sine (4000 t) 27] Apr (t) = 400 es [(2x10 17t) + 32000 Tisine (40002) dt] SFM (t) = 400 GOS [(0x10 11t) +/00531 [ sine(40002) OE]



Question 4. S(+)= 200 cos[(2x10 116) + 12 sin(2x10 116)] a) loissance meogenne. modulation d'augle P = Ac = (200) = 2000 EWJ b) 20 max (colonistion maximale deplus) max [/@col] max [1/8 sin (2×103 TTE)]] 125 max = 12 Credans] c) Afmax colorisation massimule de frégues Afmax = 1 max 3 /d [G(+)]? = 1 mas of 12 sin (2x/34t) { = 12 max 3 | d (oright) x coo (axis ne) } = 12 x(2x10311) maz 2/ as(2110972)3 Afrex = 12000 H3

1) B = 12 000Hg = 12 BT = 2(/3/+1)B BT = 2(12+1) 1000 BT = 26 000 Hg e) Bp = 20max = 12 [radions] B-= 2 (B+1) B B-= 2 (12+1) 1000 B-= 26000 M3