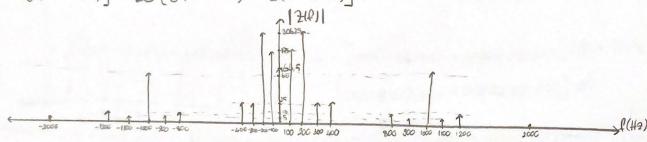
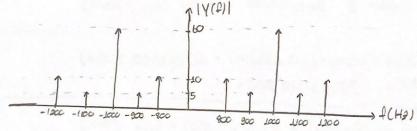
```
ELEC 361 Analog Communication Systems Project
m(+) = 5 cos(27 100+) + 10 cos(2720+)
x(+) = m(+) + c(+) = 5cos(2a 100+) + 10cos(2a 200+) + 2cos(2a 1000+)
                                                                      $ [1+cos(2220+)]
2(+) = 60x(+) + x^{2}(+)
2(+) = 300cos(27 100+) + 600cos(27 200+) + 120cos(27 2000+) + 25cos2(27 100+) +
      100 ccs 2(2 a 200+) + 4 ccs 2(2 a 1000+) + 2 [50 cos(2a 100+) ccs (2a 200+) + 10 cos(2a 100+)
      cos (2 1 1000+) + 20 cos (21 200+) cos (21 200+)
2'(+) = 50 [cos(2x 300+) + cos(2x 100+)] + 10 [cos(2x 1100+) + cos(2x 900+)] +
       20 [cos(2a 120c+) + cos(27 800+)]
2(+) = 300cos(27,100+) + 600cos(27,200+) + 120cos(27,1000+) + 12,5 + 10,5 cos(27,200+)
    + 50 + 50 cos(2a400+) + 2 + 2cos(2a2000+) + 50 cos(2a100+) + 50 cos(2a100+)
    + 10 cos(2 \pi 1100+) + 10 ccs (2 \pi 900+) + 20 cos(2 \pi 1200+) + 20 cc s(2 \pi 800+)
 Bandpass filter gain & Bandwidth 400H2 &c = 1kH2
y(+) = 120cos(27 1000+) +10cos(27 1100+) +10cos(27 900+)
     + 20 cos (2a 1200+) + 20 cos (2a 800+)
M(4) = \frac{1}{2} \left[ S(f-100) + S(f+100) \right] + 5 \left[ S(f-200) + S(f+200) \right]
                          -7- 131 100 200 st (H2)
```

$$X(t) = \frac{5}{2} \left[S(t+100) + S(t+100) \right] + S(t+100) +$$

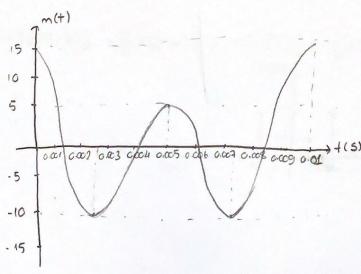
2(f) = 64.5 S(f) + 150 [S(f-100) + S(f+100)] + 300 [S(f-200) + S(f+200)] + 60 [S(f-100) + S(f+100)] + 6.25 [S(f-200) + S(f+200)] + 25 [S(f-100) + 25 [S(f-100) + 25 [S(f-300) + S(f+300)]] + 25 [S(f-100) + 25 [S(f-300) + S(f+300)] + 25 [S(f-100) + S(f+100)] + 5 [S(f-1100) + S(f+1100)] + 5 [S(f-1100) + S(f+1100)] + 5 [S(f-1100) + S(f+1100)] + 10 [S(f-1100) + S(f



 $Y(t) = 60 \left[S(t-1000) + S(t+1000) \right] + 5 \left[S(t-1100) + S(t+1100) \right] + 5 \left[S(t-900) + S(t+900) \right] + 10 \left[S(t-1200) + S(t+1200) \right] + 10 \left[S(t-800) + S(t+800) \right]$



 $m(t) = 5\cos(2\pi t \cos t) + 10\cos(400\pi t)$ t = 0 igin m(0) = 15 t = 0.005 igin m(0.005) = 5 t = 0.0024 igin m(0.0027) = -10t = 0.0042 igin m(0.0042) = -10



```
x(+) = 5 cos(28100+) + 10 cos(20 200+) + 2 cos(20 1000+)
+=0 ich x(0) = 17
+= C.005 ign x(0.005) = 7
+= 0.0025 icin x (0.0025) = -12
+= 0.0075 Igin x (0.0075) = -12
+=0.01 ign x(0.01) = 17
           201
           15
           10
           5
                                       0.00A 0.009 0.009 0.01
               acon acez aces a con a cos a bob
          -5
          -10
          -15
         -20 f
2(+) icin;
+= 0 'da 2(0) = 1300
+= 0.0025 'de 2(0.0025) = -600
+=0.0075 be 210.0075) =-600
+=0.01'de 2(0.01) = 1300
+=0.005 de 2(0.005) = 470
              1000
              800
              600-
              400
                  accis p. 002 0003 of 004 0.005 0,006 0.007 0.008 $ 009 001
            -200
            - 400
            - 600
```

