DSP lab two

y[n]= cos(2 pi f1 t)+2 sin (2 pi f2 t) + 3 cos(2 pi f3 t);

f1=4 , f2=20 , f3=35;

```
t=-30:30;
f1=4;
f2=20;
f3=35;
yn=y1+y2+y3;
y1=cos(2*pi*f1*t);
y2=2*sin(2*pi*f2*t);
y3=3*cos(2*pi*f3*t);
subplot(4,1,1)
plot(t,y1)
subplot(4,1,2)
plot(t,y2)
subplot(4,1,3)
plot(t,y3)
subplot(4,1,4)
plot(t,yn)

subplot(4,1,1)
title('y1=cos(2*pi*f1*t)')
```