%dalgaların gösterimi

x = (0:pi/500:4\*pi);

s1 = sin(x);

s2 = sin(x+pi/2);

subplot(1,2,1), plot(x,s1);

title('dalga gösterimi s1');

grid on;

xlabel('t(s)');

ylabel('genlik')

subplot(1,2,2), plot(x,s2);

title('dalga gösterimi s2');

grid on;

xlabel('t(s)');

ylabel('genlik')

axis([0, 13, - 1, 1]);



%faz farkı pi/2

x = (0:pi/500:4\*pi);

s1 = sin(x);

s2 = sin(x+pi/2);

stop = s1 +s2;

subplot(1,1,1), plot(x,stop);

title('faz darkı pi/2 s1+s2');

grid on;

xlabel('t(s)');

ylabel('genlik')



%faz farkı pi

x = (0:pi/500:4\*pi);

s1 = sin(x);

s2 = sin(x+pi);

stop = s1 + s2;

subplot(1,1,1), plot(x,stop);

title('faz darkı pi s1+s2');

grid on;

xlabel('t(s)');

ylabel('genlik')

%faz farkı 0 & 2pi

x = (0:pi/500:4\*pi);

s1 = sin(x);

s2 = sin(x+2\*pi);

s3 = sin(x);

stop = s1 + s2;

stop2 = s1 + s3;

subplot(1,2,1), plot(x,stop);

title('faz darkı 0 s1+s2');

grid on;

xlabel('t(s)');

ylabel('genlik')

subplot(1,2,2), plot(x,stop2);

title('faz darkı 2\*pi s1+s2');

grid on;

xlabel('t(s)');

ylabel('genlik')