

```

clear ;
close all;
clc;

A1 = 1;
A2 = 0.5;

f1 = 1;
f2 = 2;

phi1 = pi/3;
phi2 = 2*pi/3;

t = 0:0.001:10;

a1 = A1*cos(2*pi*f1*t - phi1);
a2 = A2*cos(2*pi*f1*t - phi1);

subplot(3,1,1);
plot(t,a1);
hold on;
plot(t,a2);
legend('a1', 'a2');
hold off;

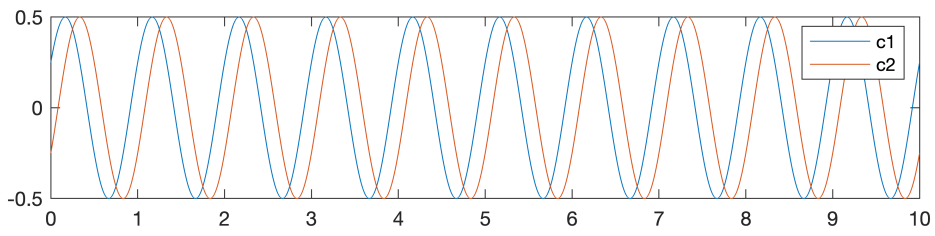
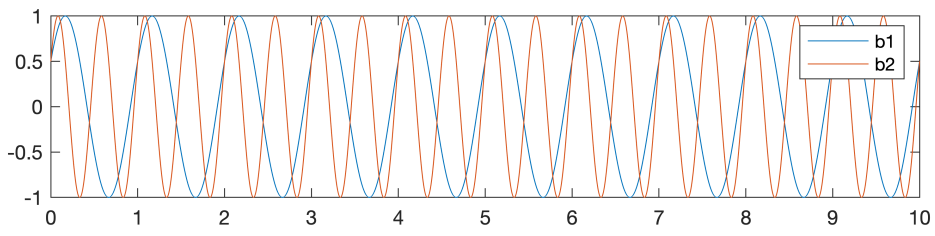
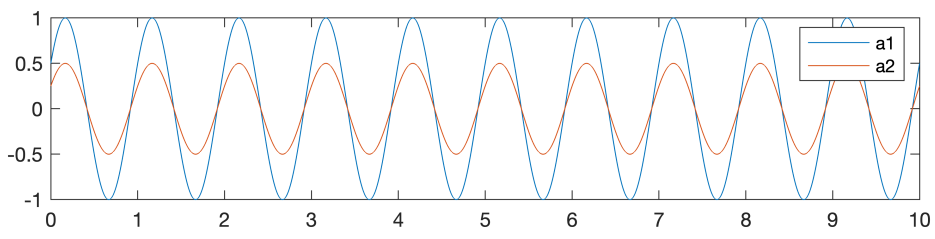
b1 = A1*cos(2*pi*f1*t - phi1);
b2 = A1*cos(2*pi*f2*t - phi1);

subplot(3,1,2);
plot(t,b1);
hold on;
plot(t, b2);
legend('b1', 'b2');
hold off;

c1 = A2*cos(2*pi*f1*t - phi1);
c2 = A2*cos(2*pi*f1*t - phi2);

subplot(3,1,3);
plot(t, c1);
hold on;
plot(t, c2);
legend('c1', 'c2');
hold off;

```



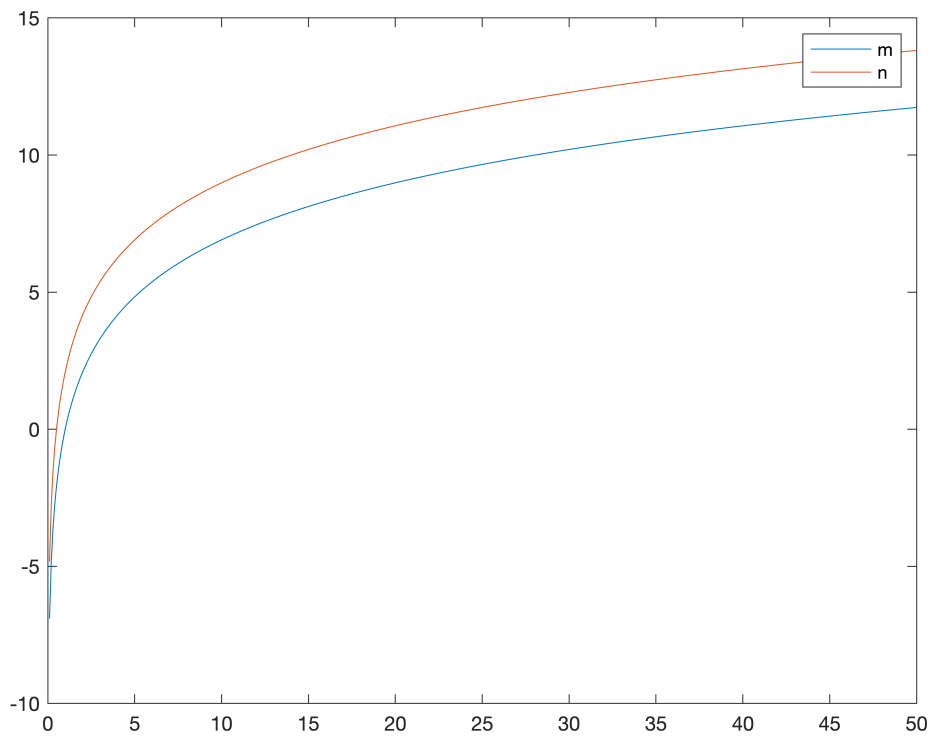
```

clear;
close all;
clc;

a1=1;
a2=2;
A=3;
t= 0:0.1:50;
m = A*log(a1*t);
n = A*log(a2*t);

plot(t, m);
hold on;
plot(t, n);
legend('m', 'n');
hold off;

```



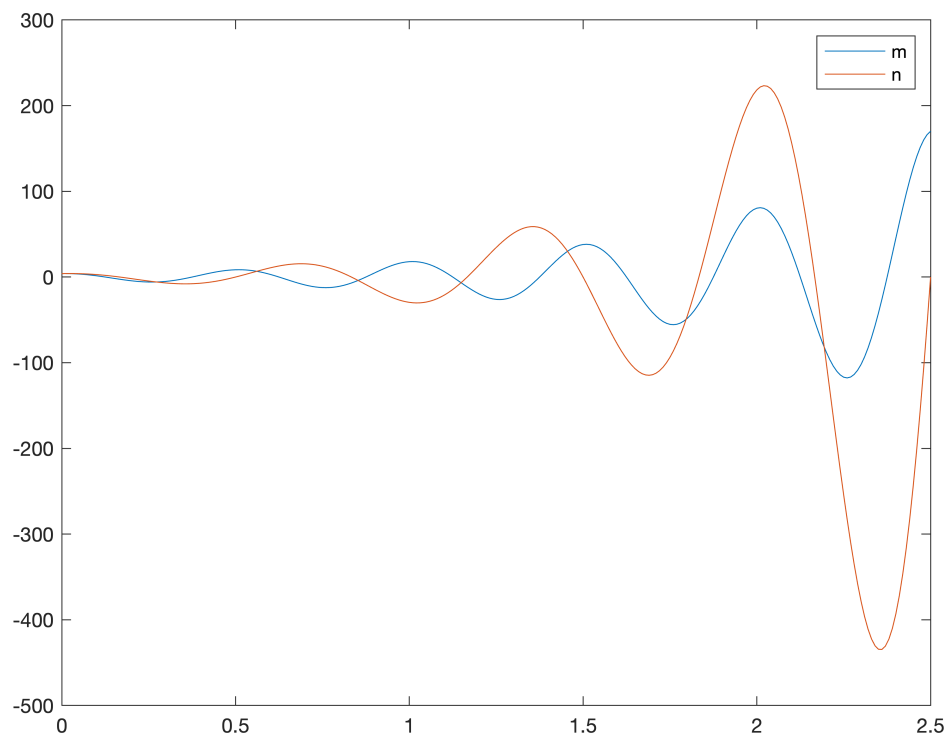
```

clear;
close all;
clc;

A = 4;
a1 = 1.5;
a2 = 2;
f01 = 2;
f02 = 1.5;
t = 0:0.01:2.5;
m = A*exp(a1*t).*cos(2*pi*f01*t);
n = A*exp(a2*t).*cos(2*pi*f02*t);

plot(t,m);
hold on;
plot(t,n);
legend('m','n');
hold off;

```



```

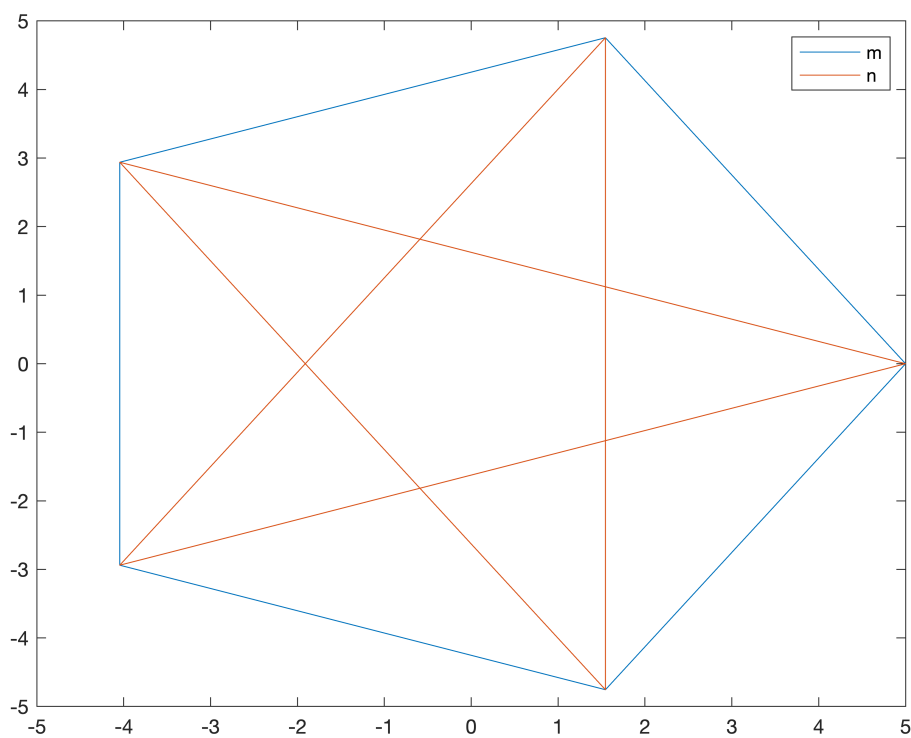
clear;
close all;
clc;

A = 5;
f01 = 2;
f02 = 4;
t = 0:0.1:10;

m = A*exp(j*2*pi*f01*t);
n = A*exp(j*2*pi*f02*t);

plot(real(m),imag(m));
hold on;
plot(real(n),imag(n));
legend('m', 'n');
hold off;

```



```

clear;
close all;
clc;

t = 0:0.01:100;
f01 = 0.05;
A1 = 5;
f02 = 0.025;
A2 = 2.5;

m1 = A1 * square(2*pi*f01*t, 50);
n1 = A2 * square(2*pi*f01*t, 50);
subplot(211);
plot(t,m1);
hold on;
plot(t,n1);
legend('m1', 'n1');

subplot(212);
m2 = A2 * square(2*pi*f01*t, 50);
n2 = A2 * square(2*pi*f02*t, 50);
plot(t, m2);
hold on;
plot(t, n2);
legend('m2', 'n2');
hold off;

```

