t = 0:0.0001:0.04;

f = 50;

we = 2 \* pi \* 50;

x1 = 100 \* cos(we \* t);

x2 = 100 \* cos(we \* t - 2 \* pi / 3);

x3 = 100 \* cos(we \* t + 2 \* pi / 3);

%% part A

plot(t, x1, 'r');

hold on

plot(t, x2, 'b');

hold on

plot(t, x3, 'g');

legend x1 x2 x3

hold on

xlabel("time(sec)");

ylabel("Amplitude");

