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% Chapter 3 sinusoid sum example (chap3_sinesum.m)
%
% Plot the sum of three sinusoids-
%
%  $x(t)=160\cos(120\pi t)+20\cos(360\pi t+2\pi/9)+8\cos(600\pi t-\pi/6)$ 
%
t=0:0.0005:0.06;
x=160*cos(120*pi*t)+20*cos(360*pi*t+2*pi/9)+8*cos(600*pi*t-pi/6);
plot(t,x,'r',[0,0.06],[0,0],'k-'), grid
axis([0 0.06 -200 200]);
ylabel('x(t)', 'fontsize',16, 'fontname', 'times')
xlabel('t (sec)', 'fontsize',16, 'fontname', 'times')
title({'Sinusoid Sum Example';...
      'x(t)=160cos(120\pit)+20cos(360\pit+2\pi/9)+8cos(600\pit-\pi/6)'},...
      'fontsize',14, 'fontname', 'times')
set(findobj('type','line'),'linewidth',1.5)
set(findobj('type','line'),'markersize',18)
set(findobj('type','axes'),'linewidth',2)

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