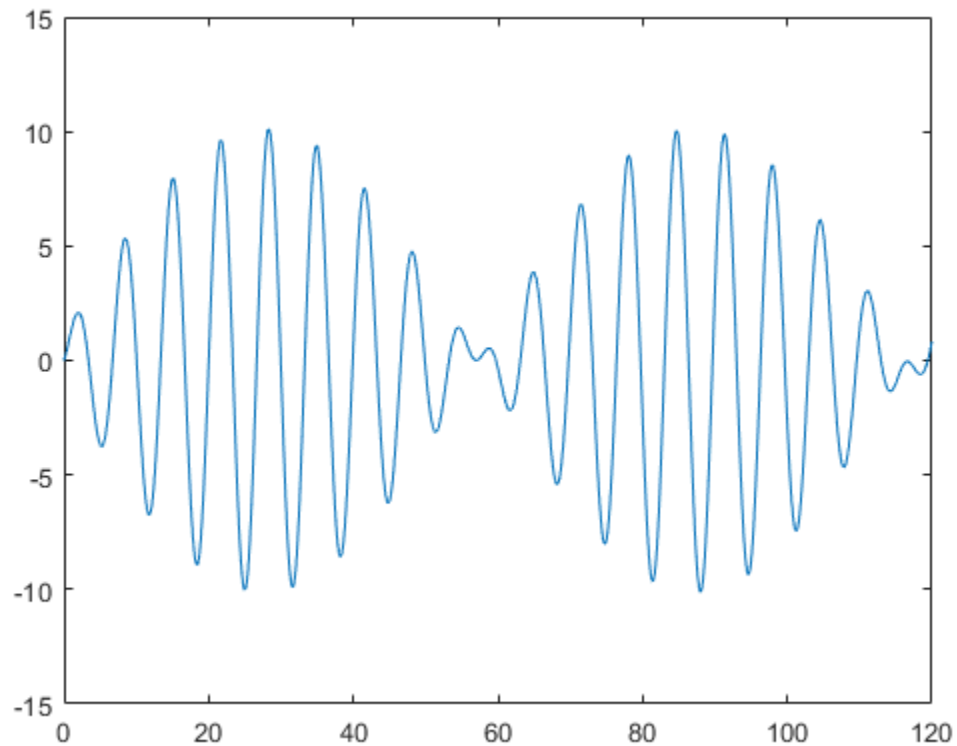
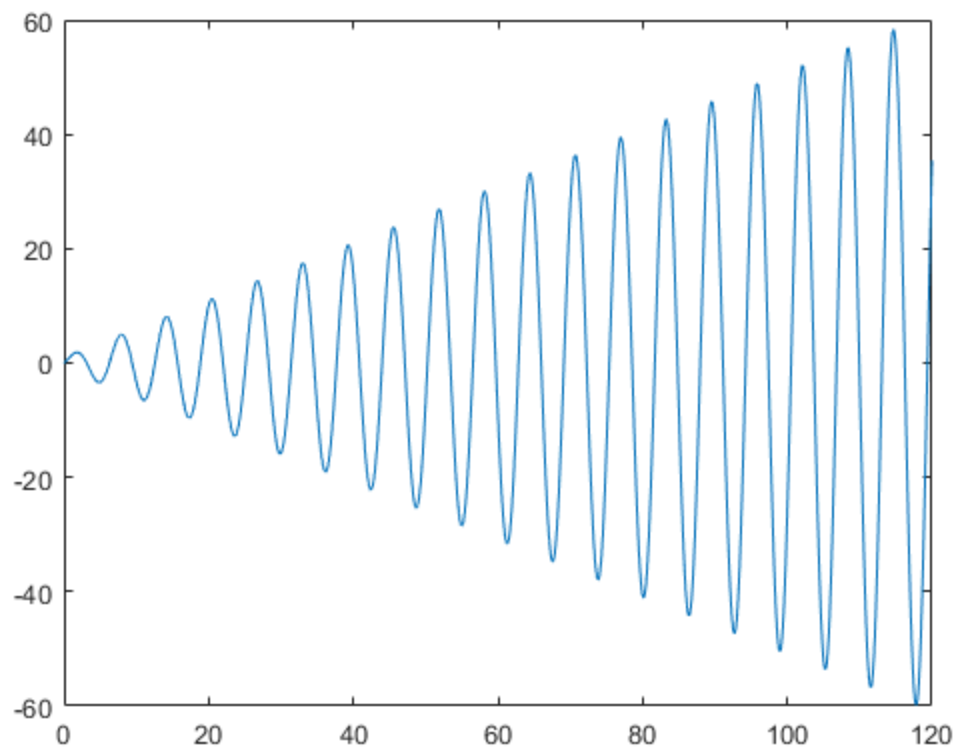

Part b

for k=1 xfin=sin(t) + (t*sin(t))/2 for k=.8 xfin= $5\cos((2\cdot 5^{1/2})t/5) - 5\cos(t) + (5^{1/2}\sin((2\cdot 5^{1/2})t/5))/2$

Part c

```
t= 0:.1:120;  
y= sin(t) + (t.*sin(t))/2;  
x = 5*cos((2*5^(1/2)*t)/5) - 5*cos(t) +  
    (5^(1/2)*sin((2*5^(1/2)*t)/5))/2;  
figure(1)  
plot(t,x)  
figure(2)  
plot(t,y)
```





Published with MATLAB® R2019b