```
>> hvals=logspace(-1,-4,13);
>> err=zeros(1,13);
>> for k=1:length(hvals)
      err(k)=abs(cos(3*(1+hvals(k).*(-2:2)))*c*(1/hvals(k)^2)-(-9*cos(3)));
         %approximates (cos(3x))'' at x=1 with FDA from 3a and h=hval(k)
         %note that stored vector c didn't include the scaling of 1/h^2
   end
>> plot(hvals,err)
>> pred=zeros(1,13);
>> for k=1:length(pred)
      pred(k)=-0.0111111 * hvals(k)^4 *(-3^6*cos(3));
         %leading order term of predicted error by fdstencil for h=hvals(k)
   end
>> plot(pred,err);
>> loglog(hvals,err)
>>
```