

```
commandwindow
clear
clc
format short g
syms p g m t
g=9.81;
m=68.1;
t=10;
v=40;
f=(g*m/p)*(1-exp(-p*t/m))-(v)
k=diff(f,p)
pretty(k);
p=0.35
for i=1:10;
    iter(i+1)=i;
    p=double(subs(p-(f/k)));
    pf(i+1)=p;
    error(i+1)=(pf(i+1)-pf(i))/pf(i+1)*100;
    if error(i+1) <= 1E-11;
        break
    end
end
end
tab=[iter' pf' error']
```