

```

clc;clf,clearvars;
format long

e = 1;
x = 10^10;
list1 = [];
list2=[];

for i = 1:10
    e = e/10;
    list1 = [list1 e];
    R = x;
    for j = 1:(e^-1)
        R = R+e;
    end
    R = R-x;
    list2=[list2 R];
    fprintf(' The value of R = %9.8f as a function of small number e = %9.8f \n',R,e )
end

semilogx(list1,list2)
xlabel('Small numer e');
ylabel=('Final result R');

```

```

The value of R = 1.00000381 as a function of small number e = 0.10000000
The value of R = 1.00002289 as a function of small number e = 0.01000000
The value of R = 0.99945068 as a function of small number e = 0.00100000
The value of R = 0.99182129 as a function of small number e = 0.00010000
The value of R = 0.95366478 as a function of small number e = 0.00001000
The value of R = 1.90734673 as a function of small number e = 0.00000100
The value of R = 0.00000000 as a function of small number e = 0.00000010
The value of R = 0.00000000 as a function of small number e = 0.00000001
The value of R = 0.00000000 as a function of small number e = 0.00000000
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