```
f5(3/4);
type('f5');

s10=    0.7499

s20=    0.7500

s30=    0.7500

ea10=   9.7377e-05

ea20=   3.0831e-09

ea30=   7.6494e-14

er10=     0.0130

er20=   4.1108e-07

er30=   1.0199e-11

nr. minim de termeni astfel incat er sa nu depaseasca 3% este:     5


function[s10,s20,s30,ea10,ea20,ea30,er10,er20,er30,nr]=f5(s)
s=3/4;
ermax=3/100;
s10=0;
s20=0;
s30=0;
nr=1;
k=1;
sn=0;
for i=1:10
    s10=s10+i/3^i;
end
for i=1:20
    s20=s20+i/3^i;
end
for i=1:30
    s30=s30+i/3^i;
end
ea10=abs(s-s10);
ea20=abs(s-s20);
ea30=abs(s-s30);
er10=ea10/abs(s)*100;
er20=ea20/abs(s)*100;
er30=ea30/abs(s)*100;
fprintf('s10=');
disp(s10);
fprintf('s20=');
disp(s20);
```

```
fprintf('s30=');
disp(s30);
fprintf('ea10=');
disp(ea10);
fprintf('ea20=');
disp(ea20);
fprintf('ea30=');
disp(ea30);
fprintf('er10= ');
disp(er10);
fprintf('er20=');
disp(er20);
fprintf('er30=');
disp(er30);
while k
    sn=sn+nr/3^nr;
    if abs(s-sn)/abs(s)<=ermax
        k=0;
    end
    nr=nr+1;
end
fprintf('nr. minim de termeni astfel incat er sa nu depaseasca 3%%
 este:')
disp(nr-1);
```

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