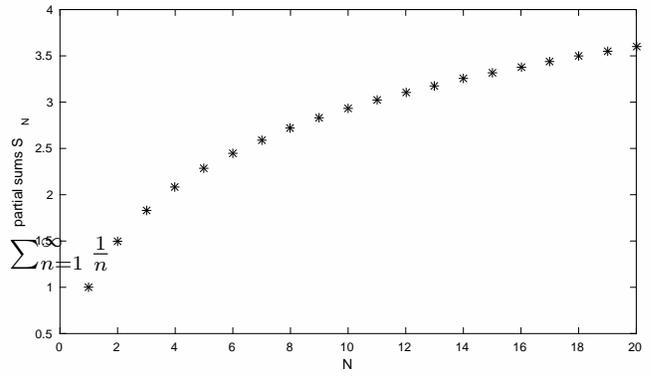
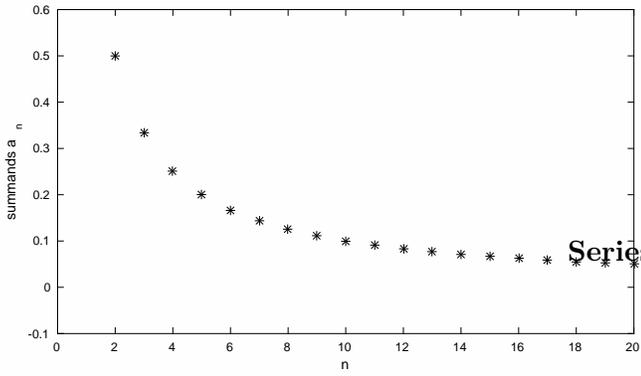
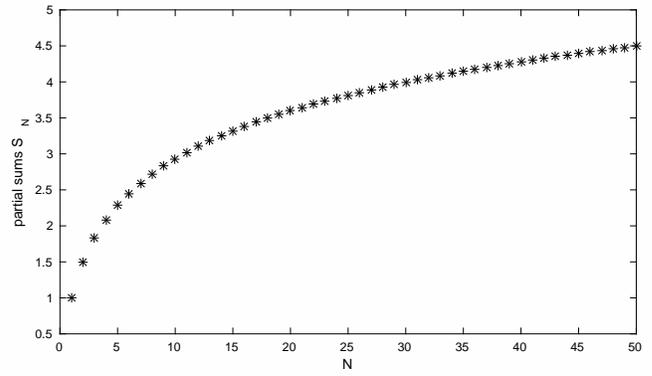
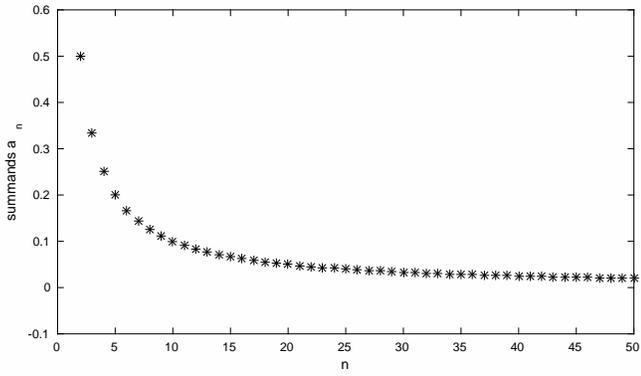


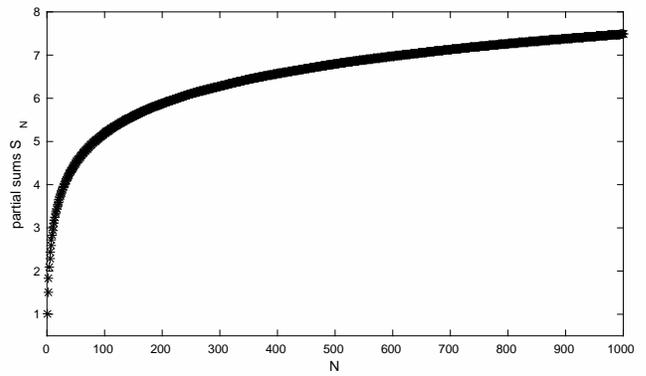
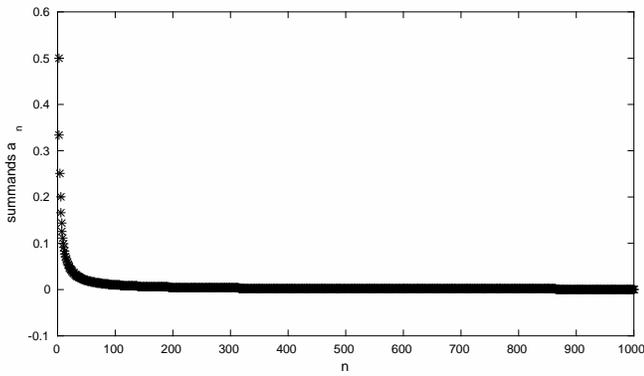
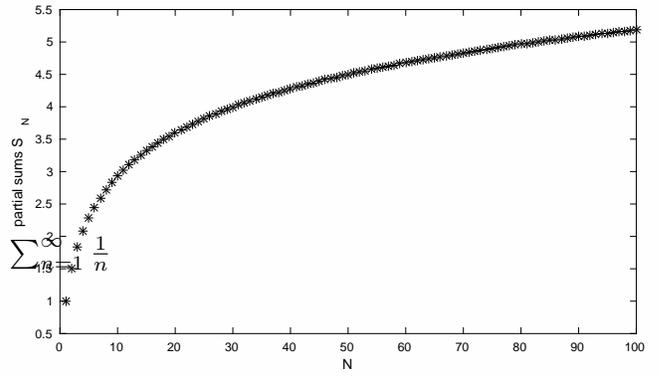
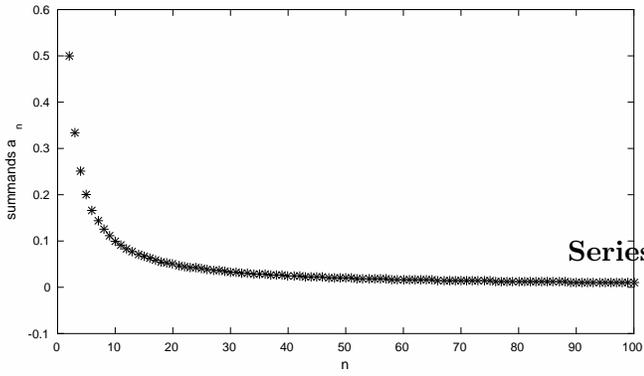
Series 1:  $\sum_{n=1}^{\infty} \frac{1}{n}$



Series 2:  $\sum_{n=1}^{\infty} \frac{1}{n^2}$



Series 3:  $\sum_{n=1}^{\infty} \frac{1}{n}$



```

n=20;
for j=1:n, a(j)=1/j; end
for l=1:n
    s(l)=0;
    for j=1:l
        s(l)=s(l)+a(j);
    end
end
end

figure(1), subplot('position',[.15,.2,.8,.6])
set(gca,'FontSize',17)
plot(1:n,a,'*',[0,n],[0,0],'-'), box on, axis([0,n,-0.1,0.6])
xlabel('n'), ylabel('summands a_n')
print -deps summands3

figure(2), subplot('position',[.15,.2,.8,.6])
set(gca,'FontSize',17)
plot(1:n,s,'*'), box on, axis([0,n,.5,4])
xlabel('N'), ylabel('partial sums S_N')
print -deps partsum3

```