

```
>> syms n k j
>> n=1:1:100;
>> y=(-2/3).^n;
>> plot(n,y)
>> syms x y
>> f=(-2/3)^x
```

f =

$(-2/3)^x$

```
>> limit(f,x,Inf)
```

ans =

0

```
>>
```

```
>> syms n k x y j
>> a=1/(k+1)-1/k
```

a =

$1/(k + 1) - 1/k$

```
>> symsum(a,k,1,Inf)
```

ans =

-1

```
>>
```