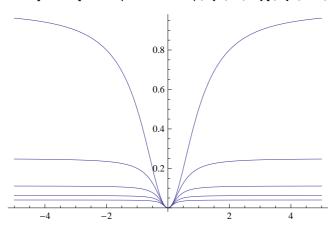
Aufgabe 64

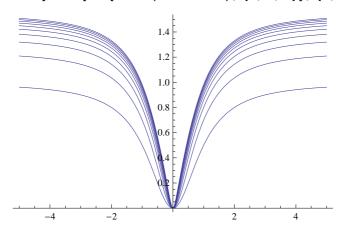
Graphen der Funktionen $f_n = x^2/(1 + n^2 x^2)$

Plot[Table[$x^2/(1+n^2x^2)$, {n, 1, 5}], {x, -5, 5}]



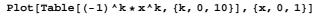
Graphen der Partialsummen

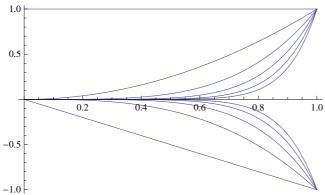
Plot[Table[Sum[x^2 /(1+ n^2x^2), {n, 1, k}], {k, 1, 10}], {x, -5, 5}]



Aufgabe 65

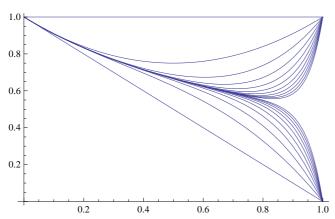
Graphen der Funktionen $f_n = (-x)^n$





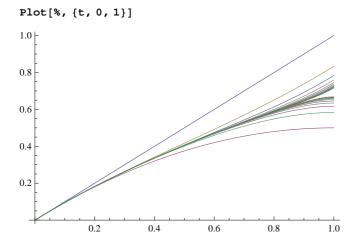
Graphen der Partialsummen

Plot[Table[Sum[(-1) $^k * x^k$, {k, 0, 1}], {1, 0, 20}], {x, 0, 1}]



Graphen der Partialsummen der integrierten Reihe

 $Table[Sum[Integrate[(-1)^k * x^k, \{x, 0, t\}], \{k, 0, 1\}], \{1, 0, 20\}]$



Zum Vergleich : die Grenzfunktion ln (1 + x)

