Zwei Methoden zur Berechnung von $\sqrt{2}$

```
Methode 1
  iter=0  x=1.000000000000000e+00  err=4.142e-01
  iter=1  x=1.500000000000000e+00  err=8.579e-02
  iter=2  x=1.416666666666667e+00  err=2.453e-03
  iter=3  x=1.414215686274510e+00  err=2.124e-06
  iter=4  x=1.414213562374690e+00  err=1.595e-12
  iter=5  x=1.414213562373095e+00  err=9.671e-17
  time=0.42

Methode 2
  iter=0  x=1.000000000000000e+00  err=4.142e-01
  iter=1  x=1.400000000000000e+00  err=1.421e-02
  iter=2  x=1.414213197969543e+00  err=3.644e-07
  iter=3  x=1.414213562373095e+00  err=9.671e-17
  iter=4  x=1.414213562373095e+00  err=9.671e-17
  iter=5  x=1.414213562373095e+00  err=9.671e-17
  time=0.35
```