Startwert Xo = 0.5 (Vereinfachtes Newton - Verfahren)

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_0)}$$
 $x_1 = x_0 - \frac{f(x_0)}{f'(x_0)} = 0.4847$ $x_2 = x_1 - \frac{f(x_1)}{f'(x_0)} = 0.4857$

$$x_3 = x_2 - \frac{f(x_2)}{f'(x_0)} = 0.4856$$
 $x_4 = x_3 - \frac{f(x_3)}{f'(x_0)} = 0.4856$

Startwerte Xo = -1 and Xy = -1.2 (3ckanten-Verfahren)

$$x_{n+1} = x_n - \frac{x_n - x_{n-1}}{3(x_n) + f(x_{n-1})} \cdot f(x_n)$$

$$\frac{4 + x_2}{3(x_1) - f(x_0)} \cdot f(x_1) = -1.8610 \qquad x_5 = x_2 - \frac{x_2 - x_1}{5(x_2) - f(x_1)} \cdot f(x_2) = -1.3494$$

$$x_4 = x_3 - \frac{x_3 - x_2}{f(x_3) - f(x_2)} \cdot f(x_3) = -1.4826$$
 $x_5 = x_4 - \frac{x_4 - x_5}{f(x_4) - f(x_3)} \cdot f(x_4) = -1.5594$