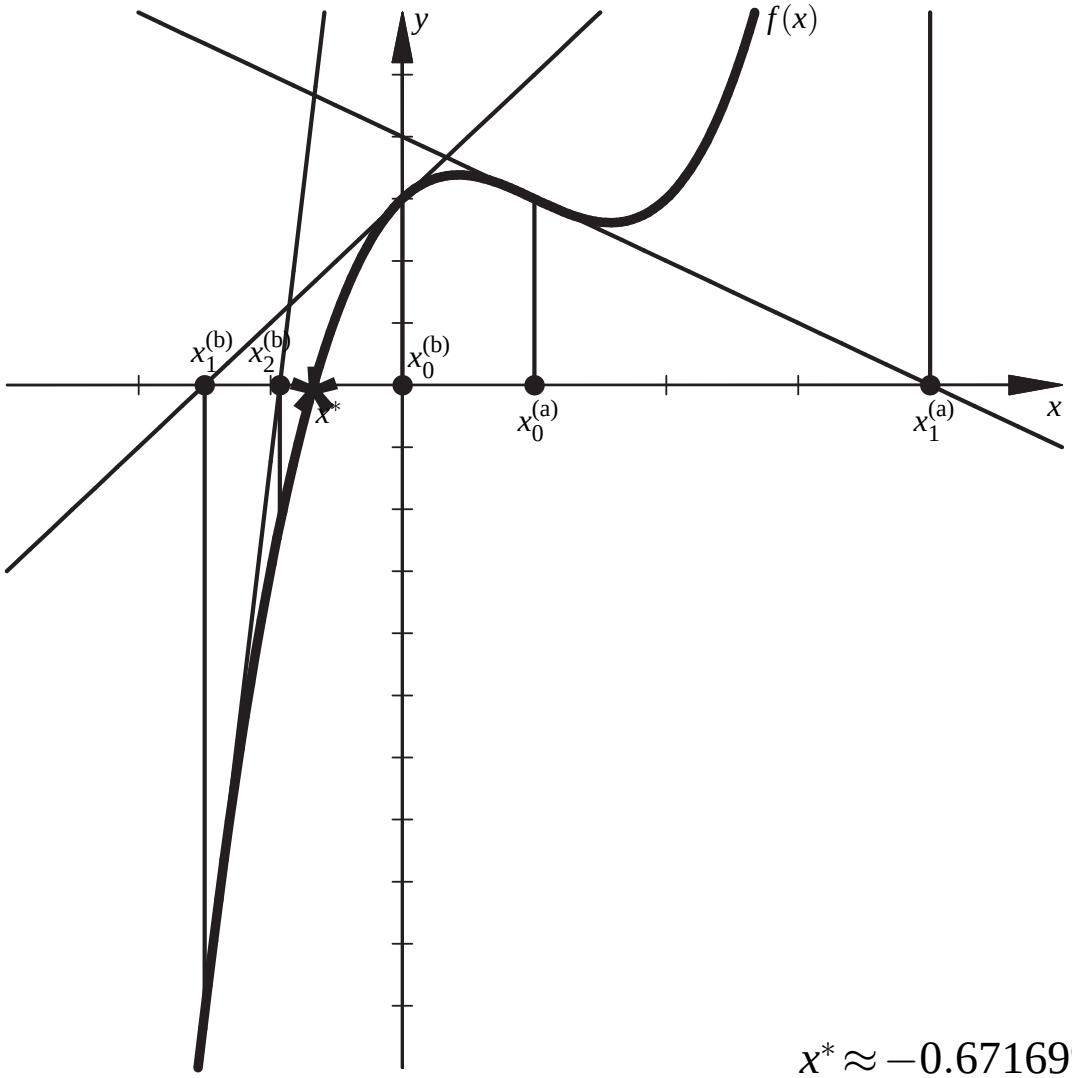
Newtonverfahren für $f(x) = x^3 - 3x^2 + 2x + 3 = 0$

Start bei $x_0^{(a)} = 1$ und $x_0^{(b)} = 0$

	(a)			(b)		
n	x_n	$f(x_n)$	$f'(x_n)$	x_n	$f(x_n)$	$f'(x_n)$
0	1.00000000	3.00000000	−1.00000000	0.00000000	3.00000000	2.00000000
1	4.00000000	27.00000000	26.00000000	−1.50000000	−10.12500000	17.75000000
2	2.96153846	8.58574192	10.54289941	−0.92957746	−2.25475886	10.16980758
3	2.14717596	3.36252216	2.94803806	−0.70786640	−0.27365137	7.75042292
4	1.00657937	2.99342091	−0.99987014	−0.67255847	−0.00634332	7.39235554
5	4.00038907	27.01011729	26.00700379	−0.67170038	−0.00000369	7.38374650
6	2.96181818	8.58869138	10.54619166	−0.67169988	0.00000000	7.38374148
7	2.14743023	3.36327197	2.94978839	−0.67169988	0.00000000	7.38374148
8	1.00725625	2.99274413	−0.99984204	−0.67169988	0.00000000	7.38374148
9	4.00047319	27.01230492	26.00851807	−0.67169988	0.00000000	7.38374148
10	2.96187865	8.58932914	10.54690347	−0.67169988	0.00000000	7.38374148



$x^* \approx -0.67169988$