Console

n	x0	x1	x2
	x3	y	dx0
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1	1.0000000000	1.5384615385	1.2950191571
	1.4018253094	1.3692554253	0.3692554253
2	1.3692554253	1.3686095857	1.3688962195
	1.3687690017	1.3688081084	-0.0004473168
3	1.3688081084	1.3688081076	1.3688081079
	1.3688081078	1.3688081078	-0.0000000006

The solution of this equation after 3 Iterations is 1.3688081078