Бисекция

| № | F(x) с точностью 9 | ΔF\*(x) с точностью 9 | F\*(x) с точностью 6 | ΔF\*(x) с точностью 6 | F\*(x) с точностью 4 | ΔF\*(x) с точностью 4 | F\*(x) с точностью 2 | ΔF\*(x) с точностью 2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 0.700000000 | 0.007106781 | 0.024127 | 0.007106781 | 0.0241 | 0.007106781 | 0.02 | 0.007106781 |
| 2 | 0.950000000 | 0.242893219 | 0.816671 | 0.242893219 | 0.8167 | 0.242893219 | 0.82 | 0.242893219 |
| 3 | 0.825000000 | 0.117893219 | 0.390713 | 0.117893219 | 0.3907 | 0.117893219 | 0.37 | 0.117893219 |
| 4 | 0.762500000 | 0.055393219 | 0.184832 | 0.055393219 | 0.1848 | 0.055393219 | 0.18 | 0.055393219 |
| 5 | 0.731250000 | 0.024143219 | 0.081146 | 0.024143219 | 0.0810 | 0.024143219 | 0.08 | 0.024143219 |
| 6 | 0.715625000 | 0.008518219 | 0.028764 | 0.008518219 | 0.0287 | 0.008518219 | 0.04 | 0.008518219 |
| 7 | 0.707812500 | 0.000705719 | 0.002387 | 0.000705719 | 0.0023 | 0.000705719 | 0.01 | 0.000705719 |
| 8 | 0.703906250 | 0.003200531 | 0.010851 | 0.003200531 | 0.0109 | 0.003200531 | 0.02 | 0.003200531 |
| 9 | 0.705859375 | 0.001247406 | 0.004227 | 0.001247406 | 0.0041 | 0.001247406 | 0.01 | 0.001247406 |
| 10 | 0.706835937 | 0.000270844 | 0.000917 | 0.000270844 | 0.0010 | 0.000270844 | 0.02 | 0.002223969 |
| 11 | 0.707324219 | 0.000217437 | 0.000736 | 0.000217437 | 0.0007 | 0.000217437 | 0.01 | 0.001735688 |
| 12 | 0.707080078 | 0.000026703 | 0.000091 | 0.000026703 | 0.0000 | 0.000026703 | 0.01 | 0.001979828 |
| 13 | 0.707202148 | 0.000095367 | 0.000322 | 0.000095367 | 0.0003 | 0.000095367 | 0.01 | 0.002101899 |
| 14 | 0.707141113 | 0.000034332 | 0.000116 | 0.000034332 | 0.0000 | 0.000034332 | 0.02 | 0.002162934 |
| 15 | 0.707110596 | 0.000003814 | 0.000014 | 0.000003814 | 0.0003 | 0.000064849 | 0.02 | 0.002132416 |
| 16 | 0.707095337 | 0.000011444 | 0.000040 | 0.000011444 | 0.0003 | 0.000049591 | 0.02 | 0.002117157 |
| 17 | 0.707102966 | 0.000003815 | 0.000013 | 0.000003815 | 0.0000 | 0.000041961 | 0.02 | 0.002109528 |
| 18 | 0.707106781 | 0.000000000 | 0.000001 | 0.000000000 | 0.0003 | 0.000045776 | 0.01 | 0.002105713 |
| 19 | 0.707108688 | 0.000001907 | 0.000006 | 0.000001908 | 0.0003 | 0.000043869 | 0.02 | 0.002107621 |
| 20 | 0.707107735 | 0.000000953 | 0.000003 | 0.000000954 | 0.0000 | 0.000042915 | 0.01 | 0.002106667 |
| 21 | 0.707107258 | 0.000000476 | 0.000003 | 0.000000477 | 0.0003 | 0.000043392 | 0.02 | 0.002107144 |
| 22 | 0.707107019 | 0.000000238 | 0.000001 | 0.000000239 | 0.0000 | 0.000043153 | 0.02 | 0.002106905 |
| 23 | 0.707106900 | 0.000000119 | 0.000003 | 0.000000358 | 0.0003 | 0.000043273 | 0.02 | 0.002106786 |
| 24 | 0.707106841 | 0.000000059 | 0.000003 | 0.000000298 | 0.0000 | 0.000043213 | 0.01 | 0.002106727 |
| 25 | 0.707106811 | 0.000000029 | 0.000001 | 0.000000269 | 0.0003 | 0.000043243 | 0.01 | 0.002106756 |
| 26 | 0.707106796 | 0.000000015 | 0.000003 | 0.000000283 | 0.0003 | 0.000043228 | 0.01 | 0.002106771 |
| 27 | 0.707106788 | 0.000000007 | 0.000001 | 0.000000276 | 0.0003 | 0.000043220 | 0.01 | 0.002106779 |
| 28 | 0.707106785 | 0.000000003 | 0.000001 | 0.000000280 | 0.0000 | 0.000043217 | 0.02 | 0.002106782 |
| 29 | 0.707106783 | 0.000000001 | 0.000003 | 0.000000282 | 0.0000 | 0.000043219 | 0.01 | 0.002106781 |
| 30 | 0.707106782 | 0.000000001 | 0.000001 | 0.000000281 | 0.0003 | 0.000043220 | 0.02 | 0.002106781 |

Ньютон

| № | F\*(x) с точностью 9 | ΔF\*(x) с точностью 9 | F\*(x) с точностью 6 | ΔF\*(x) с точностью 6 | F\*(x) с точностью 4 | ΔF\*(x) с точностью 4 | F\*(x) с точностью 2 | ΔF\*(x) с точностью 2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | |  | |  | |  | |