ЧИСЛЕННЫЕ ПРИМЕРЫ

для которой в [5] была получена оценка

*Таблица 1.*

Результаты работы алгоритма

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Отрезок | ε\* | ε |  |  |  |  |  |  | , *м*с |  |
| Набор 1. *b*1= *b*2= *b*3= 0; *a*1=–4, *a*2=–1, *a*3= 3 | | | | | | | | | |  |
|  |
|  | 0.01 | 0.005 | 50 | 0.0001 | –0.999999 | | 0.000001 | 99999 | 4 |  |
|  | 0.001 | 250 | 0.000036 | –1.000004 | | 0.002000 | 277777 | 11 |  |
| [–5; 5] |  |
| 0.001 | 0.0005 | 500 | 0.000001 | –3.999999 | | 0.000012 | 9999999 | 398 |  |
|  |  |
|  | 0.0001 | 2500 | 0.0000004 | –1.000000 | | 0.000202 | 27777777 | 1101 |  |
|  | 0.01 | 0.005 | 50 | 0.000100 | 2.999999 | | 0.000003 | 200000 | 9 |  |
|  | 0.001 | 250 | 0.000036 | –1.000000 | | 0.000007 | 555555 | 35 |  |
| [–10; 10] |  |
| 0.001 | 0.0005 | 500 | 0.000001 | 2.999999 | | 0.000026 | 20000000 | 751 |  |
|  |  |
|  | 0.0001 | 2500 | 0.0000004 | –1.000000 | | 0.000081 | 55555555 | 2059 |  |
|  | 0.01 | 0.005 | 50 | 0.000100 | 2.999999 | | 0.000004 | 300000 | 12 |  |
|  | 0.001 | 250 | 0.000036 | 2.999999 | | 0.000009 | 833333 | 32 |  |
| [–15; 15] |  |
| 0.001 | 0.0005 | 500 | 0.000001 | 2.999999 | | 0.000066 | 30000000 | 1148 |  |
|  |  |
|  | 0.0001 | 2500 | 0.0000004 | 2.999999 | | 0.000110 | 83333333 | 3059 |  |
| Набор 2. *b*1=–1, *b*2=–1.005, *b*3= 0.5; *a*1=–4, *a*2=–1, *a*3= 3 | | | | | | | | | |  |
|  |
|  | 0.01 | 0.005 | 50 | 0.000100 | –0.999999 | | –1.004999 | 99999 | 3 |  |
| [–5; 5] | 0.001 | 250 | 0.000036 | –1.000004 | | –1.003000 | 277777 | 9 |  |
|  |
| 0.001 | 0.0005 | 500 | 0.000001 | –0.999999 | | –1.004982 | 9999999 | 367 |  |
|  |  |
|  | 0.0001 | 2500 | 0.0000004 | –1.000000 | | –1.004798 | 27777777 | 997 |  |
|  | 0.01 | 0.005 | 50 | 0.000100 | –1.000000 | | –1.004997 | 200000 | 7 |  |
|  | 0.001 | 250 | 0.000036 | –1.000000 | | –1.004993 | 555555 | 23 |  |
| [–10; 10] |  |
| 0.001 | 0.0005 | 500 | 0.000001 | –1.000000 | | –1.004973 | 20000000 | 711 |  |
|  |  |
|  | 0.0001 | 2500 | 0.0000004 | –1.000000 | | –1.004919 | 55555555 | 1971 |  |
|  | 0.01 | 0.005 | 50 | 0.000100 | –1.000000 | | –1.004995 | 300000 | 10 |  |
|  | 0.001 | 250 | 0.000036 | –0.999996 | | –1.003000 | 833333 | 43 |  |
| [–15; 15] |  |
| 0.001 | 0.0005 | 500 | 0.000001 | –1.000000 | | –1.004933 | 30000000 | 1056 |  |
|  |  |
|  | 0.0001 | 2500 | 0.0000004 | –1.000000 | | –1.004834 | 83333333 | 2871 |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Отрезок | ε\* | ε |  |  |  |  |  |  | , *м*с |  |
|  | 0.01 | 0.005 | 51 | 0.000098 | 0.000044 | | 0.006647 | 2796 | 0 |  |
|  | 0.001 | 251 | 0.000036 | –0.000013 | | 0.0036 | 7645 | 0 |  |
| [–2; 3] |  |
| 0.001 | 0.0005 | 501 | 0.000001 | 0.000000 | | 0.000636 | 274703 | 12 |  |
|  |  |
|  | 0.0001 | 2501 | 0.0000004 | 0.000000 | | 0.00031 | 761848 | 35 |  |



|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Отрезок | ε\* | ε |  |  |  |  |  |  | , *м*с |  |
|  | 0.01 | 0.005 | 51 | 0.000098 | 0.000044 | | 0.006647 | 2796 | 0 |  |
|  | 0.001 | 251 | 0.000036 | –0.000013 | | 0.0036 | 7645 | 0 |  |
| [–2; 3] |  |
| 0.001 | 0.0005 | 501 | 0.000001 | 0.000000 | | 0.000636 | 274704 | 14 |  |
|  |  |
|  | 0.0001 | 2501 | 0.0000004 | 0.000000 | | 0.00031 | 761848 | 32 |  |