Solve the system of nonlinear equations (separate and refine a positive root) using the fixed-point iteration method and the Newton method with an accuracy of ε=0.0001:

|  |  |  |
| --- | --- | --- |
| No | *a* | System |
| 1 | 2 |  |
| 2 | 3 |
| 3 | 4 |
| 4 | 1 |  |
| 5 | 2 |
| 6 | 3 |
| 7 | 2 |  |
| 8 | 3 |
| 9 | 4 |
| 10 | 1 |  |
| 11 | 2 |
| 12 | 3 |
| 13 | 2 |  |
| 14 | 3 |
| 15 | 4 |
| 16 | 2 |  |
| 17 | 3 |
| 18 | 4 |
| 19 | 1 |  |
| 20 | 2 |
| 21 | 3 |
| 22 | 1 |  |
| 23 | 2 |
| 24 | 3 |
| 25 | 1 |  |
| 26 | 2 |
| 27 | 3 |
| 28 | 4 |  |
| 29 | 5 |
| 30 | 6 |