

| k | a_k | $f(a_k)$ | b_k | $f(b_k)$ | x_k | $f(x_k)$ | err_k |
|-----|--------|----------|--------|----------|--------|----------|---------|
| 1 | 1 | -1 | 3 | 7 | 2 | 2 | 1 |
| 2 | 1 | -1 | 2 | 2 | 1.5 | 0.25 | 0.5 |
| 3 | 1 | -1 | 1.5 | 0.25 | 1.25 | -0.437 | 0.25 |
| 4 | 1.25 | -0.437 | 1.5 | 0.25 | 1.375 | -0.109 | 0.125 |
| 5 | 1.375 | -0.109 | 1.5 | 0.25 | 1.4375 | 0.0664 | 0.0625 |
| 6 | 1.375 | -0.109 | 1.4375 | 0.0664 | 1.4062 | -0.022 | 0.0312 |
| 7 | 1.4062 | -0.022 | 1.4375 | 0.0664 | 1.4218 | 0.0217 | 0.0156 |
| 8 | 1.4062 | -0.022 | 1.4218 | 0.0217 | 1.4140 | -0.000 | 0.0078 |
| 9 | 1.4140 | -0.000 | 1.4218 | 0.0217 | 1.4179 | 0.0106 | 0.0039 |