

Console

| n | x_n X_{n+1} | $f(x_n)$ Error | $f_1(x_n)$ |
|---|------------------------------|------------------------------|---------------|
| 0 | 0.0000000000 0.3333333333 | 1.0000000000 0.3333333333 | -3.0000000000 |
| 1 | 0.3333333333 0.3601707136 | 0.0684177283 0.0268373802 | -2.5493445212 |
| 2 | 0.3601707136 0.3604216805 | 0.0006279851 0.0002509669 | -2.5022625478 |
| 3 | 0.3604216805 0.3604217030 | 0.0000000563 0.0000000225 | -2.5018142443 |

Therefore, the root is 0.3604217030