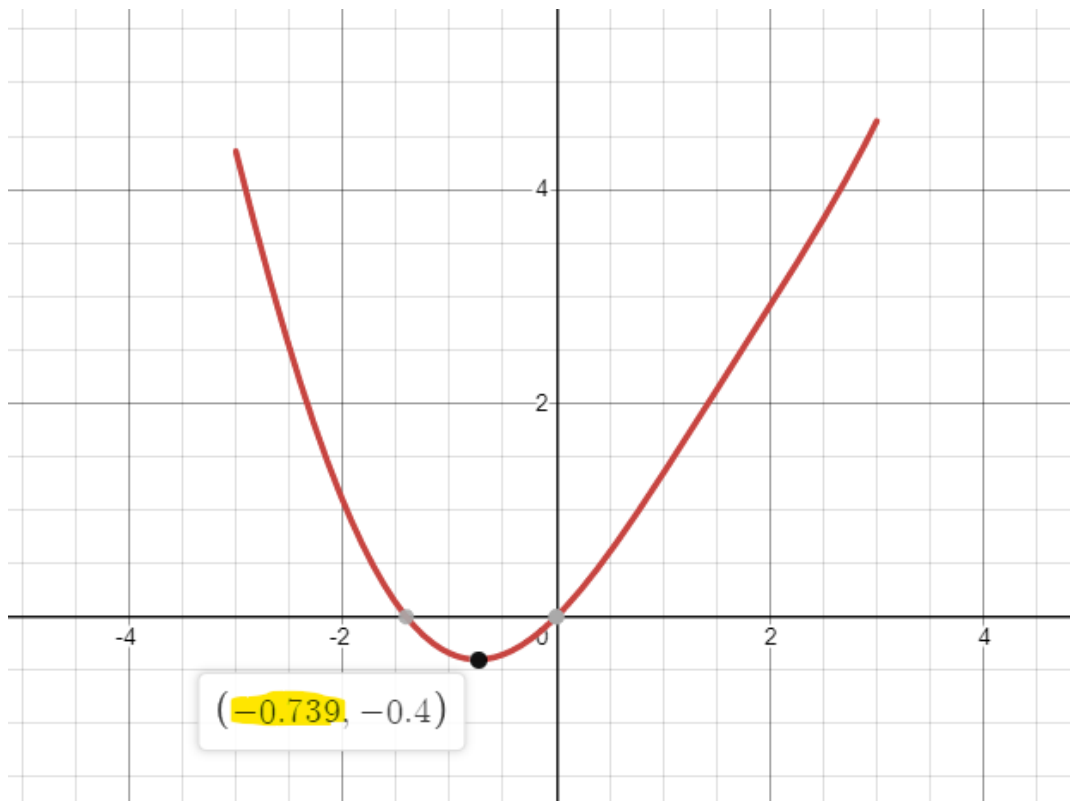


Daniel Leyva Castro, Camilo Andrés Fernández Sarmiento, Felipe Martínez

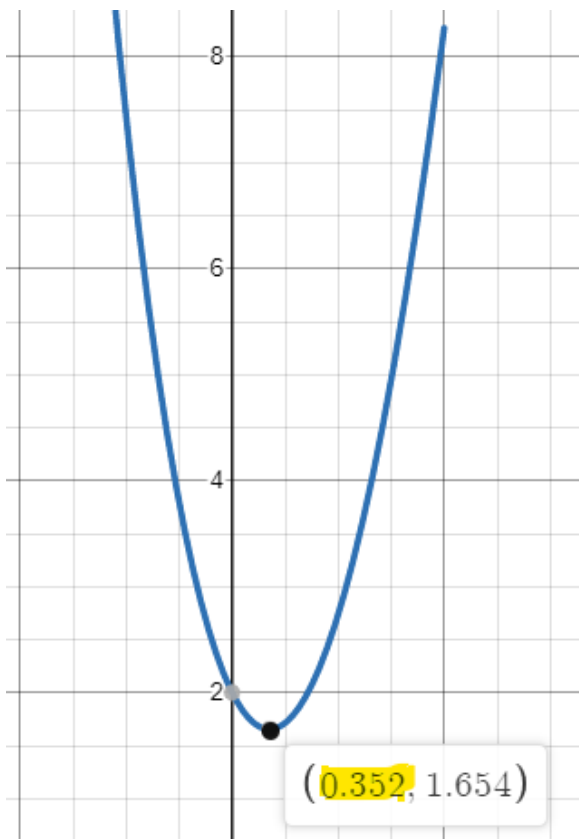
1. $\frac{x^2}{2} + \sin(x)$, $3 \leq x \leq 3$

Iteración	a_k	b_k	λ_k	μ_k	$f(\lambda_k)$	$f(\mu_k)$
1	-3	3	-0.7080	0.7080	-0.3997	0.9009
2	-3	0.7080	-1.5835	-0.7080	0.2539	-0.3997
3	-1.5835	0.7080	-0.7080	-0.1674	-0.3997	-0.1526
4	-1.5835	-0.1674	-1.0426	-0.7080	-0.3202	-0.3997
5	-1.0426	-0.1674	-0.7080	-0.5017	-0.3997	-0.3551
6	-1.0426	-0.5017	-0.8360	-0.7080	-0.3925	-0.3997
7	-0.8360	-0.5017	-0.7080	-0.6294	-0.3997	-0.3906
8	-0.8360	-0.6294	-0.7570	-0.7080	-0.4002	-0.3997
9	-0.8360	-0.7080	-0.7871	-0.7570	-0.3985	-0.4002
10	-0.7871	-0.7080	-0.7570	-0.7382	-0.4002	-0.4005
11	-0.7570	-0.7080	-0.7382	-0.7267	-0.4005	-0.4004
12	-0.7570	-0.7267	-0.7455	-0.7382	-0.4005	-0.4005
13	-0.7455	-0.7267	-0.7382	-0.7339	-0.4005	-0.4005
14	-0.7455	-0.7339	-0.7410	-0.7382	-0.4005	-0.4005
15	-0.7410	-0.7339	-0.7382	-0.7366	-0.4005	-0.4005



2. $2e^{-x} + 2x^2, -4 \leq x \leq 2$

Iteración	a_k	b_k	λ_k	μ_k	$f(\lambda_k)$	$f(\mu_k)$
1	-4	2	-1.7080	-0.2920	16.8704	2.8487
2	-1.7080	2	-0.2920	0.5835	2.8487	1.7969
3	-0.2920	2	0.5835	1.1245	1.7969	3.1785
4	-0.2920	1.1245	0.2491	0.5835	1.6831	1.7969
5	-0.2920	0.5835	0.0425	0.2491	1.9205	1.6831
6	0.0425	0.5835	0.2491	0.3768	1.6831	1.6561
7	0.2491	0.5835	0.3768	0.4558	1.6561	1.6834
8	0.2491	0.4558	0.3280	0.3768	1.6559	1.6561
9	0.2491	0.3768	0.2979	0.3280	1.6622	1.6559
10	0.2979	0.3768	0.3280	0.3467	1.6559	1.6544
11	0.3280	0.3768	0.3467	0.3582	1.6544	1.6545
12	0.3280	0.3582	0.3396	0.3467	1.6548	1.6544
13	0.3396	0.3582	0.3467	0.3511	1.6544	1.6544
14	0.3467	0.3582	0.3511	0.3538	1.6544	1.6544
15	0.3467	0.3538	0.3494	0.3511	1.6544	1.6544



3. $x^2 + \cos(x)$, $-4 \leq x \leq 2$

Iteración	a	b	la	u	fla	fu
1	-4	2	-1.7080	-0.2920	2.7805	1.0429
2	-1.7080	2	-0.2920	0.5835	1.0429	1.1750
3	-1.7080	0.5835	-0.8326	-0.2920	1.3662	1.0429
4	-0.8326	0.5835	-0.2920	0.0426	1.0429	1.0009
5	-0.2920	0.5835	0.0426	0.2491	1.0009	1.0312
6	-0.2920	0.2491	-0.0853	0.0426	1.0036	1.0009
7	-0.0853	0.2491	0.0426	0.1213	1.0009	1.0074
8	-0.0853	0.1213	-0.0064	0.0426	1.0000	1.0009
9	-0.0853	0.0426	-0.0365	-0.0064	1.0007	1.0000
10	-0.0365	0.0426	-0.0064	0.0124	1.0000	1.0001
11	-0.0365	0.0124	-0.0178	-0.0064	1.0002	1.0000
12	-0.0178	0.0124	-0.0064	8.4909e-04	1.0000	1.0000
13	-0.0064	0.0124	8.4909e-04	0.0052	1.0000	1.0000
14	-0.0064	0.0052	-0.0019	8.4909e-04	1.0000	1.0000
15	-0.0019	0.0052	8.4909e-04	0.0025	1.0000	1.0000

