

# Metodo de la Posición Falsa

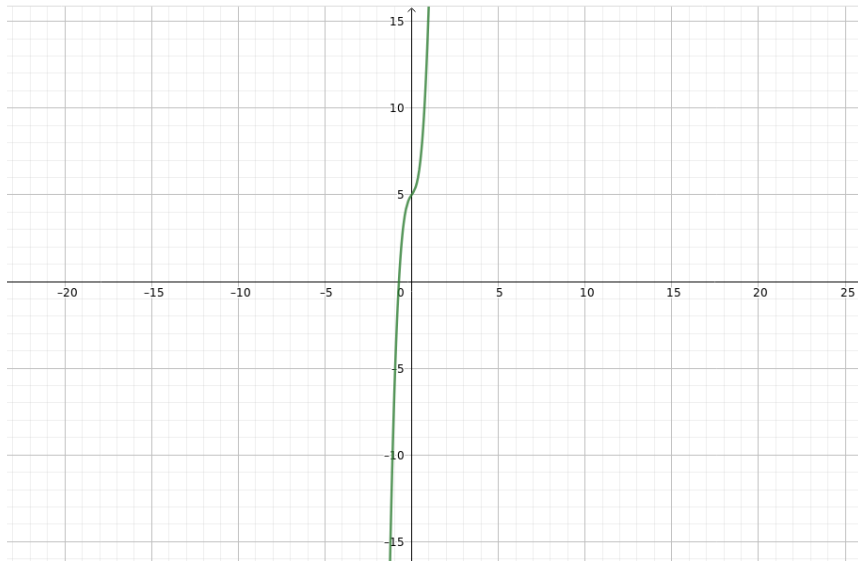
## Analisis Numérico

Lehi Quincho Mamani

Se trabajaron con las siguientes funciones y se obtuvieron los siguientes resultados

### Primera función

$$f(x) = 10x^3 + x \arctan(x + 2\pi) + 5$$



Menu

resultados posicionFalsa 1 ecuacion 1.csv - LibreOffice Calc

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Laboratorio 1- Google Drive

Liberation Sans 10

A1																			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O				
4	3	-1.28097	5	-1.28097	-17.7785														
5	4	-1.19374	5	-1.19374	-13.6546														
6	5	-1.12747	5	-1.12747	-10.8871														
7	6	-1.07507	5	-1.07507	-8.91031														
8	7	-1.0325	5	-1.0325	-7.43441														
9	8	-0.997178	5	-0.997178	-6.29549														
10	9	-0.967419	5	-0.967419	-5.3938														
11	10	-0.942031	5	-0.942031	-4.66518														
12	11	-0.920153	5	-0.920153	-4.06652														
13	12	-0.901144	5	-0.901144	-3.56781														
14	13	-0.884514	5	-0.884514	-3.14751														
15	14	-0.869879	5	-0.869879	-2.78977														
16	15	-0.856935	5	-0.856935	-2.48271														
17	16	-0.84544	5	-0.84544	-2.21719														
18	17	-0.835191	5	-0.835191	-1.98613														
19	18	-0.826025	5	-0.826025	-1.78393														
20	19	-0.817804	5	-0.817804	-1.60611														
21	20	-0.810412	5	-0.810412	-1.44904														
22	21	-0.80375	5	-0.80375	-1.30978														
23	22	-0.797735	5	-0.797735	-1.18586														
24	23	-0.792294	5	-0.792294	-1.07526														
25	24	-0.787364	5	-0.787364	-0.976278														
26	25	-0.782892	5	-0.782892	-0.887467														
27	26	-0.77883	5	-0.77883	-0.807606														
28	27	-0.775135	5	-0.775135	-0.735645														

resultados posicionFalsa 1 ecuacion 1

Hoja 1 de 1 Predeterminado Suma=0 120 %

Menu mié 4 de abr, 11:02

resultados s 2 ecuacion 1.csv - LibreOffice Calc

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Laboratorio 1 - Google Drive

Liberation Sans 10

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	0	-2	5	-1.59422	-37.6871												
2	1	-1.59422	5	-1.59422	-37.6871												
3	2	-1.40307	5	-1.40307	-24.5413												
4	3	-1.28097	5	-1.28097	-17.7785												
5	4	-1.19374	5	-1.19374	-13.6546												
6	5	-1.12747	5	-1.12747	-10.8871												
7	6	-1.07507	5	-1.07507	-8.91031												
8	7	-1.0325	5	-1.0325	-7.43441												
9	8	-0.997178	5	-0.997178	-6.29549												
10	9	-0.967419	5	-0.967419	-5.3938												
11	10	-0.942031	5	-0.942031	-4.66518												
12	11	-0.920153	5	-0.920153	-4.06652												
13	12	-0.901144	5	-0.901144	-3.56781												
14	13	-0.884514	5	-0.884514	-3.14751												
15	14	-0.869879	5	-0.869879	-2.78977												
16	15	-0.856935	5	-0.856935	-2.48271												
17	16	-0.84544	5	-0.84544	-2.21719												
18	17	-0.835191	5	-0.835191	-1.98613												
19	18	-0.826025	5	-0.826025	-1.78393												
20	19	-0.817804	5	-0.817804	-1.60611												
21	20	-0.810412	5	-0.810412	-1.44904												
22	21	-0.80375	5	-0.80375	-1.30978												
23	22	-0.797735	5	-0.797735	-1.18586												
24	23	-0.792294	5	-0.792294	-1.07526												
25	24	-0.787364	5	-0.787364	-0.976278												
26	25	-0.782892	5	-0.782892	-0.887467												
27	26	-0.77883	5	-0.77883	-0.807606												
28	27	-0.775135	5	-0.775135	-0.735645												
29	28	-0.771772	5	-0.771772	-0.670687												
30	29	-0.768737	5	-0.768737	-0.611051												

resultados s 2 ecuacion 1

Hoja 1 de 1 Predeterminado Suma=0 100 %

Menu mié 4 de abr, 11:03

resultados posicionFalsa 3 ecuacion 1.csv - LibreOffice Calc

Archivo Editar Ver Insertar Formato Hoja Datos Herramientas Ventana Ayuda

Laboratorio 1 - Google Drive

Liberation Sans 10

Facebook Franceska Manrique Chavez: La canción que te pase es buena también jeje

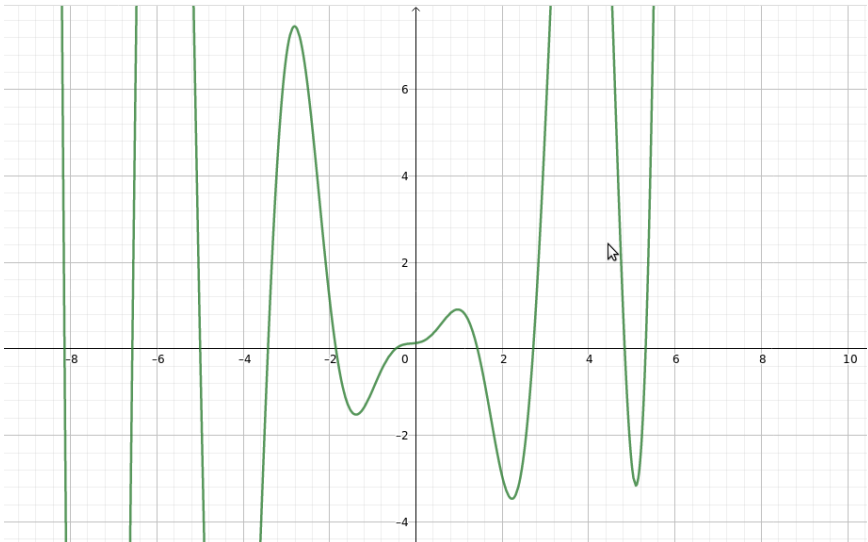
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	0	-2	5	-1.59422	7	-37.6871											
2	1	-1.59422	5	-1.59422	6.59422	-37.6871											
3	2	-1.40307	5	-1.40307	6.40307	-24.5413											
4	3	-1.28097	5	-1.28097	6.28097	-17.7785											
5	4	-1.19374	5	-1.19374	6.19374	-13.6546											
6	5	-1.12747	5	-1.12747	6.12747	-10.8871											
7	6	-1.07507	5	-1.07507	6.07507	-8.91031											
8	7	-1.0325	5	-1.0325	6.0325	-7.43441											
9	8	-0.997178	5	-0.997178	5.99718	-6.29549											
10	9	-0.967419	5	-0.967419	5.96742	-5.3938											
11	10	-0.942031	5	-0.942031	5.94203	-4.66518											
12	11	-0.920153	5	-0.920153	5.92015	-4.06652											
13	12	-0.901144	5	-0.901144	5.90114	-3.56781											
14	13	-0.884514	5	-0.884514	5.88451	-3.14751											
15	14	-0.869879	5	-0.869879	5.86988	-2.78977											
16	15	-0.856935	5	-0.856935	5.85694	-2.48271											
17	16	-0.84544	5	-0.84544	5.84544	-2.21719											
18	17	-0.835191	5	-0.835191	5.83519	-1.98613											
19	18	-0.826025	5	-0.826025	5.82603	-1.78393											
20	19	-0.817804	5	-0.817804	5.8178	-1.60611											
21	20	-0.810412	5	-0.810412	5.81041	-1.44904											
22	21	-0.80375	5	-0.80375	5.80375	-1.30978											
23	22	-0.797735	5	-0.797735	5.79773	-1.18586											
24	23	-0.792294	5	-0.792294	5.79229	-1.07526											
25	24	-0.787364	5	-0.787364	5.78736	-0.976278											
26	25	-0.782892	5	-0.782892	5.78289	-0.887467											
27	26	-0.77883	5	-0.77883	5.77883	-0.807606											
28	27	-0.775135	5	-0.775135	5.77514	-0.735645											
29	28	-0.771772	5	-0.771772	5.77177	-0.670687											
30	29	-0.768737	5	-0.768737	5.76874	-0.611051											

resultados posicionFalsa 3 ecuacion 1

Hoja 1 de 1 Predeterminado Suma=0 100 %

Segunda función

f(x) = x^2 cos(2x - 1) + e^{x-2}



Menu

resultados posicionFalsa 2 ecuacion 1.csv - LibreOffice Calc

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Laboratorio 1 - Google Drive

Liberation Sans 10

A1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	0	-2	5	-1.59422	-37.6871												
2	1	-1.59422	5	-1.59422	-37.6871												
3	2	-1.40307	5	-1.40307	-24.5413												
4	3	-1.28097	5	-1.28097	-17.7785												
5	4	-1.19374	5	-1.19374	-13.6546												
6	5	-1.12747	5	-1.12747	-10.8871												
7	6	-1.07507	5	-1.07507	-8.91031												
8	7	-1.0325	5	-1.0325	-7.43441												
9	8	-0.997178	5	-0.997178	-6.29549												
10	9	-0.967419	5	-0.967419	-5.3938												
11	10	-0.942031	5	-0.942031	-4.66518												
12	11	-0.920153	5	-0.920153	-4.06652												
13	12	-0.901144	5	-0.901144	-3.56781												
14	13	-0.884514	5	-0.884514	-3.14751												
15	14	-0.869879	5	-0.869879	-2.78977												
16	15	-0.856935	5	-0.856935	-2.48271												
17	16	-0.84544	5	-0.84544	-2.21719												
18	17	-0.835191	5	-0.835191	-1.98613												
19	18	-0.826025	5	-0.826025	-1.78393												
20	19	-0.817804	5	-0.817804	-1.60611												
21	20	-0.810412	5	-0.810412	-1.44904												
22	21	-0.80375	5	-0.80375	-1.30978												
23	22	-0.797735	5	-0.797735	-1.18586												
24	23	-0.792294	5	-0.792294	-1.07526												
25	24	-0.787364	5	-0.787364	-0.976278												
26	25	-0.782892	5	-0.782892	-0.887467												
27	26	-0.77883	5	-0.77883	-0.807606												
28	27	-0.775135	5	-0.775135	-0.735645												
29	28	-0.771772	5	-0.771772	-0.670687												
30	29	-0.768737	5	-0.768737	-0.611651												

resultados posicionFalsa 2 ecuacion 1

Hoja 1 de 1 Predeterminado Suma=0 100 %

Menu mié 4 de abr, 11:09

resultados posicionFalsa 2 ecuacion 2.csv - LibreOffice Calc

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Laboratorio 1 - Google Drive

Liberation Sans 10

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1	0	-2	5	0.0986515	0.156129												
2	1	0.0986515	5	0.0986515	0.156129												
3	2	0.367266	5	0.367266	0.325554												
4	3	0.866956	5	0.866956	0.880169												
5	4	0.866956	1.88512	1.88512	-2.41997												
6	5	1.13851	1.88512	1.13851	0.797876												
7	6	1.32363	1.88512	1.32363	0.374618												
8	7	1.3989	1.88512	1.3989	0.107784												
9	8	1.41963	1.88512	1.41963	0.0251074												
10	9	1.42441	1.88512	1.42441	0.00550659												
11	10	1.42546	1.88512	1.42546	0.00119086												
12	11	1.42568	1.88512	1.42568	0.000256744												
13																	
14																	
15																	
16																	
17																	
18																	
19																	
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21																	
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25																	
26																	
27																	
28																	
29																	

resultados posicionFalsa 2 ecuacion 2

Hoja 1 de 1 Predeterminado Suma=0 100 %

Menu mié 4 de abr, 11:08

resultados posicionFalsa 3 ecuacion 2.csv - LibreOffice Calc

Archivo Editar Ver Insertar Formato Hoja Datos Herramientas Ventana Ayuda

Laboratorio 1 - Google Drive

Liberation Sans 10

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	0	-2	5	0.0986515	7	0.156129											
2	1	0.0986515	5	0.0986515	4.90135	0.156129											
3	2	0.367266	5	0.367266	4.63273	0.325554											
4	3	0.866956	5	0.866956	4.13304	0.880169											
5	4	0.866956	1.88512	1.88512	1.01816	-2.41997											
6	5	1.13851	1.88512	1.13851	0.746611	0.797876											
7	6	1.32363	1.88512	1.32363	0.561486	0.374618											
8	7	1.3989	1.88512	1.3989	0.486218	0.107784											
9	8	1.41963	1.88512	1.41963	0.465485	0.0251074											
10	9	1.42441	1.88512	1.42441	0.460705	0.00550659											
11	10	1.42546	1.88512	1.42546	0.459659	0.00119086											
12	11	1.42568	1.88512	1.42568	0.459433	0.000256744											
13	12	1.42573	1.88512	1.42573	0.459384	5.53159E-05											
14	13	1.42574	1.88512	1.42574	0.459374	1.19162E-05											
15	14	1.42575	1.88512	1.42575	0.459372	2.5692E-06											
16	15	1.42575	1.88512	1.42575	0.459371	5.52946E-07											
17	16	1.42575	1.88512	1.42575	0.459371	1.19111E-07											
18	17	1.42575	1.88512	1.42575	0.459371	2.5658E-08											
19	18	1.42575	1.88512	1.42575	0.459371	5.52705E-09											
20	19	1.42575	1.88512	1.42575	0.459371	1.1906E-09											
21	20	1.42575	1.88512	1.42575	0.459371	2.56469E-10											
22	21	1.42575	1.88512	1.42575	0.459371	5.52461E-11											
23	22	1.42575	1.88512	1.42575	0.459371	1.19006E-11											
24	23	1.42575	1.88512	1.42575	0.459371	2.56439E-12											
25	24	1.42575	1.88512	1.42575	0.459371	5.5167E-13											
26	25	1.42575	1.88512	1.42575	0.459371	1.18461E-13											
27	26	1.42575	1.88512	1.42575	0.459371	2.57572E-14											
28	27	1.42575	1.88512	1.42575	0.459371	5.66214E-15											
29	28	1.42575	1.88512	1.42575	0.459371	1.11022E-15											
30	29	1.42575	1.88512	1.42575	0.459371	2.56132E-16											

resultados posicionFalsa 3 ecuacion 2

Hoja 1 de 1 Predeterminado Suma=0 100 %

