materia: fecha:

Tarea 1

1. Resolver

A. $x^3 - 6x^2 + 11x - 6.1 = 0$, $x_0 = 2$ $x_1 = 3,2$

$f(x) = x^3 - 6x^2 + 11x - 6.1$

$x_{n+1} = x - (x^3 - 6x^2 + 11x - 6.1) \cdot \frac{3,2 - 2}{f(3,2) - f(2)}$

x	A	y	B	
x_{n-1}	$f(x_{n-1})$	x_n	$f(x_n)$	
2	-0.1	3,2	0,428	2,22727
3.2	0,428	2,22727	-0,3155	3,01577
2,22727	-0,3155	3,01577	-0,0677	2,37661
3,01577	-0,0677	2,37661	-0,42319	2,8947169
2,37661	-0,42319	2,8947169		

x_{n-1}	$f(x_{n-1})$	x_n	$f(x_n)$	x_{n+1}
2	-1,155353	3	3,048221	2,274850
3	3,048221	2,274850	-0,250478	2,330132
2,274850	-0,250478	2,330132	-0,039739	2,340557
2,330132	-0,039739	2,340557	0,000986	2,340305
2,340557	0,000980	2,340305	-0,000002	2,340305

materia: fecha:

$0,12x - 3,0 \operatorname{sen} x = 0$; $x_0 = 2$; $x_1 = 3$

x	$f(x)$	y	$f(y)$	x_{n+1}
~~2~~	~~2,28354~~	~~3~~	~~4,49346~~	~~$9,4815 \times 10^{-3}$~~
2	[illegible]1555	3	3,04822	2,27485
3	3,04822	2,27485	−0,280497	2,329912
2,27485	−0,280497	2,329912	~~4,7…~~ −0,040345	~~2,3…~~ 2,340562
2,329912	−0,040345	[illegible]	$1,0062 \times 10^{-3}$	2,340304976
2,340562	$1,0487 \times 10^{-3}$	2,3403044	$-4,086446 \times 10^{-6}$	2,3403054
2,3403044	$-4,086 \times 10^{-6}$	2,3403054	$-1,68994 \times 10^{-9}$	2,34033341