

Materia: _____

Fecha: 17/06/2021

9:30 AM

1er Parcial

① $(4.31 \div 0.2049) + 0.737 = 21.08610568 + 0.737$
 $21.1 + 0.737$
 21.837
 $21.8 \rightarrow 2.18 \times 10^1$

② $6.10501 + 0.02 = 6.12501 = 6.13$

③ TRUE

④ $F(x) = 0.95x^3 - 5.9x^2 + 10.9x - 6$
 $x_0 = 4$

Newton Rapson $x_0 = 4$

i	x_i	$F(x_i)$	$F'(x_i)$	$E\%$
0	3.569892473	0.9418703387	5.096045786	
1	3.385068714	0.1400078207	3.61345624	
2	3.34632248	0.005570670629	3.327336036	
3	3.344648267			

3.3446

$$f(x) = 0.95x^3 - 5.9x^2 + 10.9x - 6 \equiv 4$$

$$f'(x) = 2.85x^2 - 11.8x + 10.9 \equiv 9.3$$

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2) Calcular la mayor raíz $f(x) = 0,95x^3 - 5,9x^2 + 10,9x - 6$
 $a = 3$ $b = 4$

a_i	b_i	$F = f(a)$	$G = f(b)$	x_{i+1}	$f(x_{i+1})$	$f(a) * f(x_{i+1})$	$f(a) * f(x_{i+1})$	E
3	4	-0,75	4	60/19	-0,4986149584	$(-)*(-) = (+)$	$(-)*(-) = +$	
60/19	4	-0,4986149584	2	3,32594235	-0,0607382447	$- * - = +$	$- * - = +$	
3,32594235	4	-0,0607382447	1	3,361539147				

- 1 3,3259
 2 3,3645 ✓