Jaime Antonio Daniel Filho (05/12/2024)

PARÂMETROS DA INTEGRAL DEFINIDA

INTERVALO DE INTEGRAÇÃO $I = [a, b] = [1.25, 2.86]$
COEFICIENTES DA FUNÇÃO $\{c_1, c_2, c_3, c_4\} = \{1.9, 0.61, 1.8, 0.73\}$

MÉTODOS DE INTEGRAÇÃO COMPOSTA COM MULTIRESOLUÇÃO

	TRAPÉZIO		SIMPSON		GAUSS 2PTS		GAUSS 3PTS	
k	A_k	ER_k	A_k	ER_k	A_k	ER_k	A_k	ER_k
0	-0.001923244396	1	0.02665246951	1	0.03696062486	1	0.005863937313	1
1	0.0461540869	1.041670078	0.03876439445	0.3124497394	-0.01902022622	2.943227406	-0.01925262326	1.304578614
2	0.04398677886	0.04927180608	0.00399981461	8.691547792	0.007596671601	3.503757858	-0.007510808591	1.563322315
3	0.04394459495	0.000959934008	0.01184700961	0.6623777018	0.001729237027	3.39307711	-0.005310873631	0.4142322174
4	0.0439311964	0.0003049893611	0.01201531304	0.0140074118	0.003011164071	0.4257247409	-0.005237174371	0.01407233266
5	0.04392787361	$7.564200653 \times 10^{-5}$	0.01201435145	$8.00367452 \times 10^{-5}$	0.003010535097	0.0002089244037	-0.005241507743	0.0008267415143
6	0.0439270491	$1.87700528 \times 10^{-5}$	0.01201427807	$6.107742972 \times 10^{-6}$	0.003010485011	$1.663696734 \times 10^{-5}$	-0.005241520822	$2.495282861 \times 10^{-6}$
7	0.04392684343	$4.682058042 \times 10^{-6}$	0.01201427334	$3.942974362 \times 10^{-7}$	0.003010481749	$1.083793352 \times 10^{-6}$	-0.005241520993	$3.267972895 \times 10^{-8}$
8	0.04392679204	$1.169834685 \times 10^{-6}$	–	–	0.003010481543	$6.837764439 \times 10^{-8}$	–	–
9	0.0439267792	$2.924157687 \times 10^{-7}$	–	–	–	–	–	–

INTEGRAL NUMÉRICA

$$A = 0.05371001309$$