$$I = \int_{0.0}^{1.0} e^x \, dx = 1.718281828459045$$

n	I_{trapez}	ε_{trapez}	I_{trapez}^{repeat}	$\varepsilon_{trapez}^{repeat}$	I_{simp}	ε_{simp}	I_{simp}^{repeat}	$\varepsilon_{simp}^{repeat}$
1	1.859141	8.20e-02	1.859141	8.20e-02	1.718861	3.37e-04	1.718861	3.37e-04
2	1.753931	2.07e-02	1.753931	2.07e-02	1.718319	2.15e-05	1.718319	2.15e-05
3	1.734162	9.24e-03	1.734162	9.24e-03	1.718289	4.27e-06	1.718289	4.27e-06
4	1.727222	5.20e-03	1.727222	5.20e-03	1.718284	1.35e-06	1.718284	1.35e-06
5	1.724006	3.33e-03	1.724006	3.33e-03	1.718283	5.55e-07	1.718283	5.55e-07
6	1.722257	2.31e-03	1.722257	2.31e-03	1.718282	2.68e-07	1.718282	2.68e-07
7	1.721203	1.70e-03	1.721203	1.70e-03	1.718282	1.45e-07	1.718282	1.45e-07
8	1.720519	1.30e-03	1.720519	1.30e-03	1.718282	8.47e-08	1.718282	8.47e-08
9	1.720049	1.03e-03	1.720049	1.03e-03	1.718282	5.29e-08	1.718282	5.29e-08
10	1.719713	8.33e-04	1.719713	8.33e-04	1.718282	3.47e-08	1.718282	3.47e-08
11	1.719465	6.89e-04	1.719465	6.89e-04	1.718282	2.37e-08	1.718282	2.37e-08
12	1.719276	5.79e-04	1.719276	5.79e-04	1.718282	1.67e-08	1.718282	1.67e-08
13	1.719129	4.93e-04	1.719129	4.93e-04	1.718282	1.22e-08	1.718282	1.22e-08
14	1.719012	4.25e-04	1.719012	4.25e-04	1.718282	9.04e-09	1.718282	9.04e-09
15	1.718918	3.70e-04	1.718918	3.70e-04	1.718282	6.86e-09	1.718282	6.86e-09
16	1.718841	3.25e-04	1.718841	3.25e-04	1.718282	5.30e-09	1.718282	5.30e-09
17	1.718777	2.88e-04	1.718777	2.88e-04	1.718282	4.16e-09	1.718282	4.16e-09
18	1.718724	2.57e-04	1.718724	2.57e-04	1.718282	3.31e-09	1.718282	3.31e-09
19	1.718678	2.31e-04	1.718678	2.31e-04	1.718282	2.66e-09	1.718282	2.66e-09

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$$I = \int_{0.0}^{1.0} e^{3x} \, dx = 6.361845641062555$$

n	I_{trapez}	ε_{trapez}	I_{trapez}^{repeat}	$\varepsilon_{trapez}^{repeat}$	I_{simp}	ε_{simp}	I_{simp}^{repeat}	$\varepsilon_{simp}^{repeat}$
1	10.542768	6.57e-01	10.542768	6.57e-01	6.502049	2.20e-02	6.502049	2.20e-02
2	7.512229	1.81e-01	7.512229	1.81e-01	6.372322	1.65e-03	6.372322	1.65e-03
3	6.883369	8.20e-02	6.883369	8.20e-02	6.363991	3.37e-04	6.363991	3.37e-04
4	6.657298	4.64e-02	6.657298	4.64e-02	6.362533	1.08e-04	6.362533	1.08e-04
5	6.551566	2.98e-02	6.551566	2.98e-02	6.362129	4.45e-05	6.362129	4.45e-05
6	6.493835	2.07e-02	6.493835	2.07e-02	6.361983	2.15e-05	6.361983	2.15e-05
7	6.458924	1.53e-02	6.458924	1.53e-02	6.361920	1.17e-05	6.361920	1.17e-05
8	6.436224	1.17e-02	6.436224	1.17e-02	6.361889	6.84e-06	6.361889	6.84e-06
9	6.420643	9.24e-03	6.420643	9.24e-03	6.361873	4.27e-06	6.361873	4.27e-06
10	6.409488	7.49e-03	6.409488	7.49e-03	6.361863	2.80e-06	6.361863	2.80e-06
11	6.401230	6.19e-03	6.401230	6.19e-03	6.361858	1.92e-06	6.361858	1.92e-06
12	6.394946	5.20e-03	6.394946	5.20e-03	6.361854	1.35e-06	6.361854	1.35e-06
13	6.390054	4.43e-03	6.390054	4.43e-03	6.361852	9.83e-07	6.361852	9.83e-07
14	6.386171	3.82e-03	6.386171	3.82e-03	6.361850	7.31e-07	6.361850	7.31e-07
15	6.383038	3.33e-03	6.383038	3.33e-03	6.361849	5.55e-07	6.361849	5.55e-07
16	6.380473	2.93e-03	6.380473	2.93e-03	6.361848	4.29e-07	6.361848	4.29e-07
17	6.378347	2.59e-03	6.378347	2.59e-03	6.361848	3.36e-07	6.361848	3.36e-07
18	6.376565	2.31e-03	6.376565	2.31e-03	6.361847	2.68e-07	6.361847	2.68e-07
19	6.375057	2.08e-03	6.375057	2.08e-03	6.361847	2.16e-07	6.361847	2.16e-07

$$I = \int_{0.0}^{1.0} e^{-3x}\, dx = 0.3167376438773787$$

n	I_{trapez}	ε_{trapez}	I_{trapez}^{repeat}	$\varepsilon_{trapez}^{repeat}$	I_{simp}	ε_{simp}	I_{simp}^{repeat}	$\varepsilon_{simp}^{repeat}$
1	0.524894	6.57e-01	0.524894	6.57e-01	0.323718	2.20e-02	0.323718	2.20e-02
2	0.374012	1.81e-01	0.374012	1.81e-01	0.317259	1.65e-03	0.317259	1.65e-03
3	0.342703	8.20e-02	0.342703	8.20e-02	0.316844	3.37e-04	0.316844	3.37e-04
4	0.331447	4.64e-02	0.331447	4.64e-02	0.316772	1.08e-04	0.316772	1.08e-04
5	0.326183	2.98e-02	0.326183	2.98e-02	0.316752	4.45e-05	0.316752	4.45e-05
6	0.323309	2.07e-02	0.323309	2.07e-02	0.316744	2.15e-05	0.316744	2.15e-05
7	0.321571	1.53e-02	0.321571	1.53e-02	0.316741	1.17e-05	0.316741	1.17e-05
8	0.320441	1.17e-02	0.320441	1.17e-02	0.316740	6.84e-06	0.316740	6.84e-06
9	0.319665	9.24e-03	0.319665	9.24e-03	0.316739	4.27e-06	0.316739	4.27e-06
10	0.319110	7.49e-03	0.319110	7.49e-03	0.316739	2.80e-06	0.316739	2.80e-06
11	0.318698	6.19e-03	0.318698	6.19e-03	0.316738	1.92e-06	0.316738	1.92e-06
12	0.318386	5.20e-03	0.318386	5.20e-03	0.316738	1.35e-06	0.316738	1.35e-06
13	0.318142	4.43e-03	0.318142	4.43e-03	0.316738	9.83e-07	0.316738	9.83e-07
14	0.317949	3.82e-03	0.317949	3.82e-03	0.316738	7.31e-07	0.316738	7.31e-07
15	0.317793	3.33e-03	0.317793	3.33e-03	0.316738	5.55e-07	0.316738	5.55e-07
16	0.317665	2.93e-03	0.317665	2.93e-03	0.316738	4.29e-07	0.316738	4.29e-07
17	0.317559	2.59e-03	0.317559	2.59e-03	0.316738	3.36e-07	0.316738	3.36e-07
18	0.317470	2.31e-03	0.317470	2.31e-03	0.316738	2.68e-07	0.316738	2.68e-07
19	0.317395	2.08e-03	0.317395	2.08e-03	0.316738	2.16e-07	0.316738	2.16e-07

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