Integral of (e^x)/x from 1 to 2

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n = 5 10 15 20

Trapezoidal: 3.0652601939 3.0606550469 3.0598005374 3.0595013312

Simpson's: 2.5455497654 2.9219443135 3.0328338763 3.0832182128

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Integral of (sin(x))/x from 0 to 1

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n = 5 10 15 20

Trapezoidal: 0.9450787810 0.9458320719 0.9459715216 0.9460203254

Simpson's: 0.8417321312 0.8724523868 0.8863591843 0.8941536140

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Integral of sqrt(1-x^2) from -1 to 1

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n = 5 10 15 20

Trapezoidal: 1.4238367177 1.5185244144 1.5422854505 1.5522591631

Simpson's: 1.5140397798 1.6022272526 1.5905948902 1.5860575681

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The PieceWise Function f(x)

Where f(x) = x when 0<= x <= Sqrt(2)

f(x) = (sqrt(2)/(2-sqrt(2)))\*(2-x) elsewhere

n = 5 10 15 20

Trapezoidal: 1.3462741700 1.4097056275 1.4069713000 1.4121320344

Simpson's: 1.5413063966 1.8152284750 1.8238195711 1.8661816576

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