Using a table of values of the function *y*(*x*) at points *xi*, *i*=0,1,2,3,4 calculate numerically the definite integral with the left-point and right-point rectangle rules, midpoint quadrature rule, trapezoid rule and Simpson's rule, refine the trapezoid solution with the Runge-Romberg-Richardson rule by two orders, calculate the value of the interpolation error for each method:

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