Convergence Analysis of Romberg Integration 10<sup>0</sup>  $10^{-2}$ Machine Precision Region Log Absolute Error ( $\log_{10} | Error |$ )  $10^{-4}$  $10^{-6}$ 10-8 10-10 10-12 10-14 - $10^{-16}$ 3 10 11 4 5 6 8 9 12 13 14 15 Romberg Iteration Step