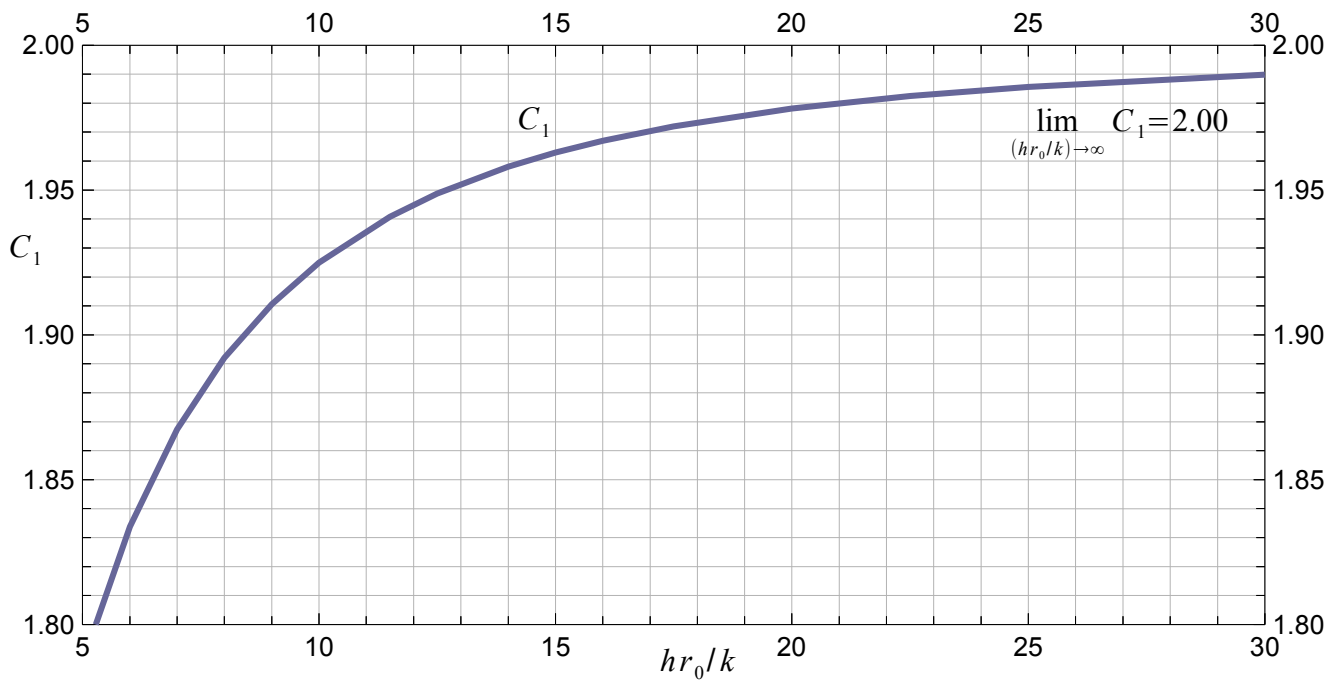
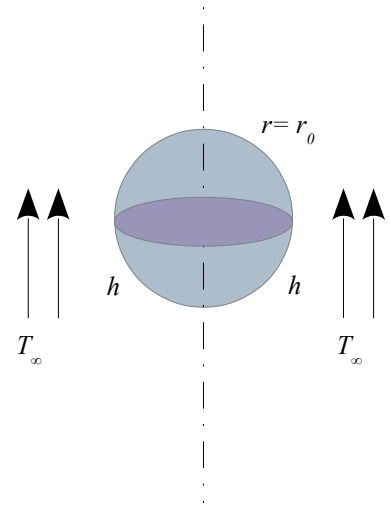
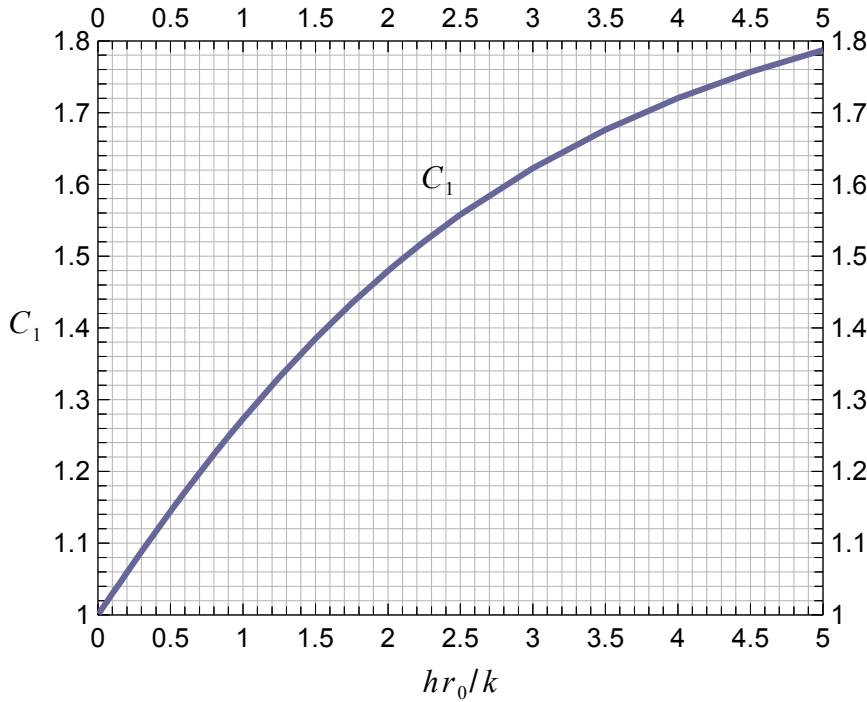


Coefficients  $\xi_1^2$  and  $C_1$  for transient, 1D heat conduction: Sphere, Centerline Temperature  $T_0(t)$

$$T_0(t) = T_\infty + (T_i - T_\infty) C_1 \exp\left[-\xi_1^2 \frac{\alpha t}{r_0^2}\right]$$



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