4) $C_p = .99403 + 1.671E\text{-}4\ T\ 9.7215E\text{-}8T^2 - 9.5838 \times 10^{-11} T^3$

$+ 1.952 \times 10^{-14} T^4$

$C_p = 1.2$

$\Rightarrow g_1(T) = \dfrac{1.2 - .99403}{(1.671E\text{-}4 + 9.7215E\text{-}8T - 9.5838E^{-11}T^2 + 1.952E\text{-}14\ T^3)}$

---

tol = 10^{-5}

n = 0

while $\varepsilon_n > 0$

| $T_{n+1} = g(T_n)$

| $n = n + 1$