









































































$$g_{1}(t) = \int_{\frac{L}{\sqrt{t_{0}}}}^{\infty} \left[ A(s) \sinh s + e^{-s\left(1 - \frac{4}{3} \ell^{*}/L\right)} \right] ds$$
  
with 
$$A(s) = \frac{\left(\frac{2}{3} \frac{t^{*}}{L} s - 1\right) \left[\frac{2}{3} \frac{t^{*}}{L} e^{-\frac{4st^{*}}{3}L} + \left(\sinh s + \frac{2}{3} \frac{t^{*}}{L} \cosh s\right) e^{-s\left(1 - \frac{4}{3} \ell^{*}\right)} \right]}{\left(\sinh s + \frac{2}{3} \frac{t^{*}}{L} s \cosh s\right)^{2} - \left(\frac{2}{3} \frac{t^{*}}{L} s\right)^{2}}$$





















































































Finding Surface Tension  

$$\Delta G = \gamma \left( 4\pi r^2 \right) - \Delta \mu \left( \frac{4}{3}\pi r^3 \right)$$
Surface energy Chemical potential  

$$P(r) \approx \exp \left( \frac{-\Delta G}{k_B T} \right) \approx \exp \left( -\gamma r^2 \right)$$
*(for small r)*





































































