Steel
$\alpha = 11.75 \times 10^{-6}$
$K = 19$ W/mK
$E = 200$ GPa

$A = .0001 \rightarrow .1$

1) Write Paper
   - Type out notes for
     - 1D Thermothermoelasticity
     - 1D Heat Transfer
     - Final Nondimensionalization
   - Background Section / Literature review
   - Results
     - Final Equation
     - Plotting
     - Fitting
   - Conclusion

2) Presentation
   - Introduction
   - Summary of Eqs
   - Solutions
   - Plots
   - Fit
   - Conclusion

3) Plots of Solutions
   - T vs. X
   - u v.s. X
   - σ v.s X
   - ϵ v.s. X

4) Fitting result
   - P v.s. R
     with fit, Look at R^2
   - Test fit with other $g_0/T_2/L$

5) Finish constant Wall temperature no resistance transient
   - in contact
   - out of contact (As with constant flux)