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PKL4FR

Homework5 Text Solutions

Q2C) Overall, Newton raphson takes less iterations and less time as compared the built in fminsearch. However, the time it takes per iteration, fminsearch is better. It takes less time per iteration of fminsearch than it is per iteration of newtonRaphson.

Q5) Thermometer does work well. With interpolation with the calculated t value, this gives a confidence value of about 62%. Since $t_{calc} (1.066) < t_{table} (2.365)$, the data agrees with standards 95% of the time. I would do more testings to create a better sample size, to see if the confidence interval gets bigger or smaller.