

EX.3.1.18, Sauer3

The expected lifetime of an industrial fan when operated at the listed temperature is shown in the table that follows. Estimate the lifetime at 70°C by using (a) the parabola from the last three data points (b) the degree-3 curve using all four points.

temp (°C)	hrs ($\times 1000$)
25	95
40	75
50	63
60	54

Please use COLAB for this problem.

No handwritten work! Please turn in a Colab Notebook