

Linearization of log Data

The following data shows the relationship between the viscosity of SAE 70 oil and temperature. After taking the log of the data, use linear regression to find the equation of the line that best fits the data and the r^2 ~~value~~ value.

Temp. °C	26.67	93.33	148.89	315.56
Viscosity, μ , Ns/m^2	1.35	0.085	0.012	0.00075

Use this model to predict the viscosity at 5 °C.

Is it a good idea to use this model to predict the viscosity at that temperature?