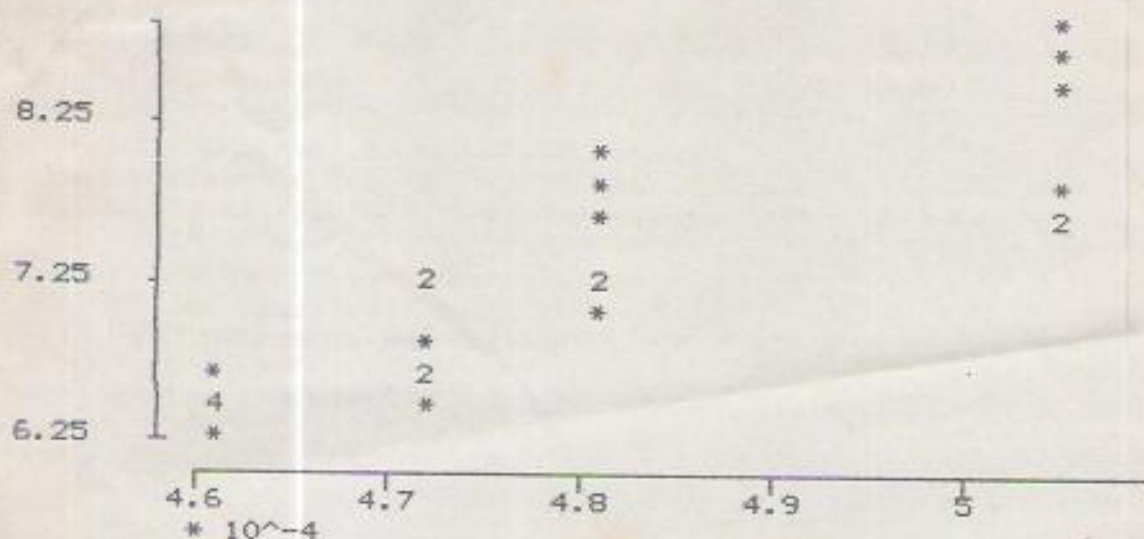


ii)

plot(log(hours), (temp+460)^-1)



linefit(log(hours), (temp+460)^-1)
 $\alpha = -11.35$ / $\beta = 3.879e+004$ / $RSS = 3.067$
 Fit: response = $-11.35 + 3.879e+004 * (\text{explanatory})$ ✓

The variance is not constant over the range of the temperature function, though a straight line would probably be a good fit.

use 40 pi

y0ci(log(hours), (temp+460)^-1, 2060^-1, 90)
 90%: 7.346 (7.485) 7.624
 exp(7.346) 1550
 exp(7.624) 2047

$\frac{4}{6}$

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