

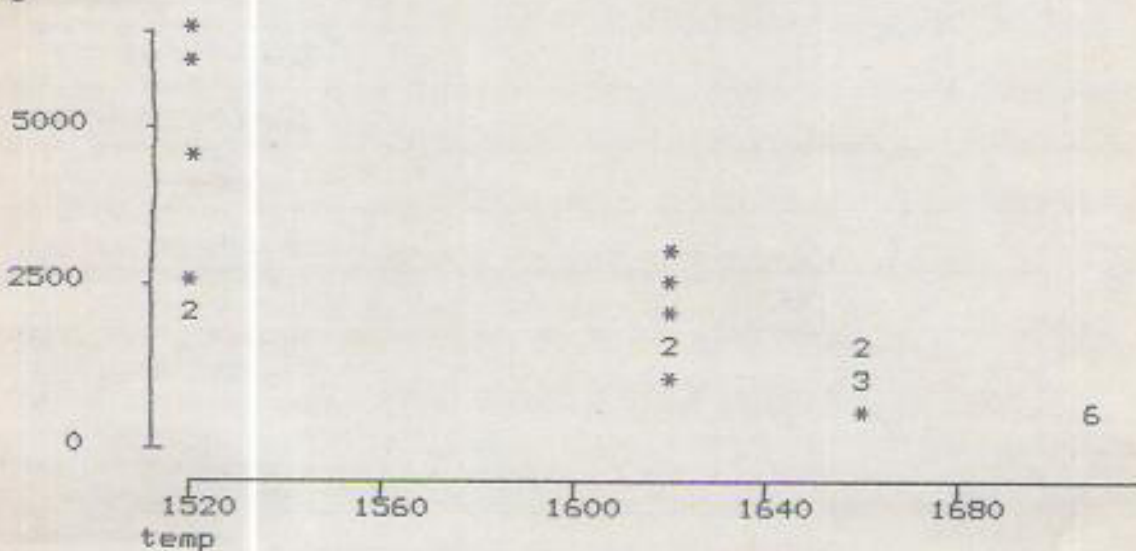
The two points removed were below the line, hence the removal of the points has raised 2 the slope of the line.

iv) The sum of the differences (or residuals) is still not near to zero. It is not much less than that in part (ii). Also the variance is still not constant over the range, though the difference is much less than in part (ii), but the residuals do appear independent. Not all the assumptions of the regression model appear to be satisfied still.

c) i)

```
load(heater)
> hours[24] temp[24] (M246 p.000)
plot(hours, temp)
```

hours



The plot suggests a negative correlation with an upwards curve. The scattergraph does not suggest constant variance over the temperature range; the suggestive upwards curve implies that a transformation is needed.