

(ii)

```
group(v0,4,9)
group(vE,4,7)
diff=(v0-vE)
c2=diff^2/vE
display(v0,vE,diff,c2)
```

v0	vE	diff	c2
296	255.4	40.6	6.455
74	123.4	-49.37	19.76
26	29.8	-3.8	0.4845
18	5.438	12.56	29.01

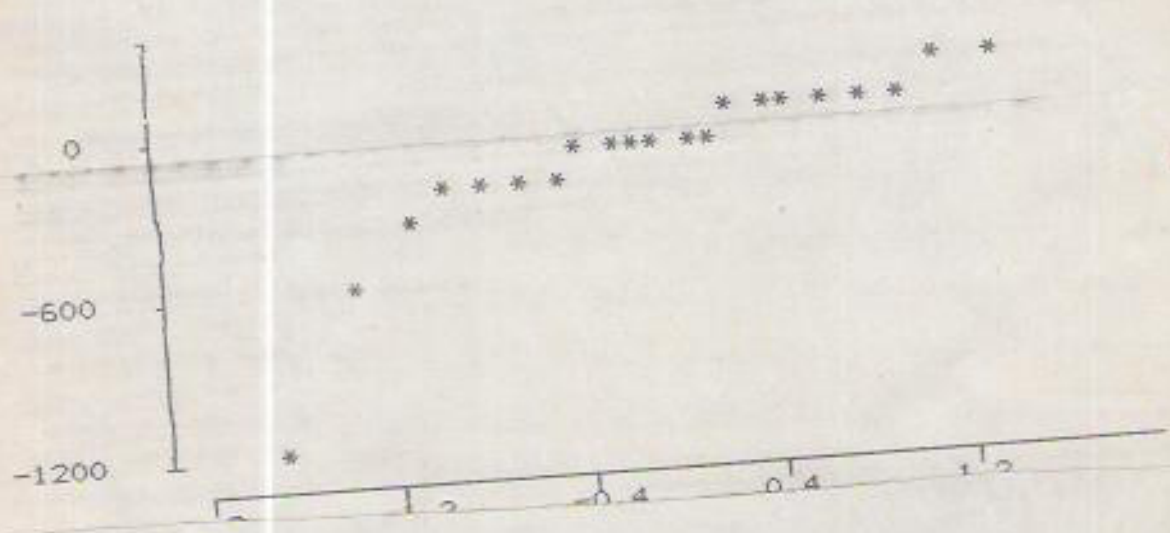
```
chi2=sum(c2)
chisq(chi2,3)
4.754e-012
```

the degrees of freedom are
 $4-1-1 = 2$

$\frac{4}{5}$

The significance probability is very small. This shows that there is ^{only} a tiny possibility that the phenomenon is due to a poisson process. This possibility can be safely rejected.
C) i)

```
plot(halo)
```



$\frac{3}{3}$