

```

[ A helpful worksheet for Exercise 3.4.2.
[ > with(plots) :
[ Here is the data for Exercise 3.4.2:
[ > data := [[0, 1.0], [300, 0.78], [1200, 0.37], [3000, 0.08]]
[ However, we will work with the log of the concentration, so
[ > logdata := [seq([data[j][1], log(data[j][2])], j = 1 ..4)]
[ A plot of the log-transformed data:
[ > plt1 := pointplot(logdata, symbol=solidcircle, symbolsize=20)
[ To fit a function  $u(k,t) = k \cdot t$  to this data by adjusting "k", define
[ >  $u(k, t) := k \cdot t$ 
[ and form sum of squares
[ >  $SS := \text{add}((u(k, \logdata[j][1]) - \logdata[j][2])^2, j = 1 ..4)$ 
[ >
[ Then minimize the resulting expression SS as a function of k.

```