A helpful worksheet for Exercise 3.4.1.

```
> with(plots) :
```

Here is the data for Exercise 3.4.1:

```
> data := [[0.1, 0.11], [0.6, 0.5], [1.1, 0.6], [1.4, 0.5]]
```

A plot:

```
> plt1 := pointplot(data, symbol = solidcircle, symbolsize = 20)
```

To fit a function u(a,t) = a*t to this data by adjusting "a", define

```
> u(a, t) := a·t
```

and form sum of squares

```
> SS := add((u(a, data[j][1]) − data[j][2])^2, j = 1..4)
```

Then minimize the resulting expression SS as a function of a.

For parts b, c, and d, do the same but with appropriate modifications to u.