```
Worksheet to support Exercise 3.4.9, modeling a cooling potato.
 > restart;
    with(plots):
The data, in time/temperature pairs:
 > data := [[0, 204], [2, 193], [4, 184], [8, 169], [10, 162], [13, 156], [17, 149], [20, 143],
        [24, 138], [30, 130]]:
Number of data points is
\triangleright N := nops(data)
A plot
 > plt1 := pointplot(data, color = red, symbol = solidcircle, symbolsize = 20, labels
        = ["time (minutes)", "Temperature"], labeldirections = [horizontal, vertical]):
    display(plt1);
The temperature might be modeled by the function
u(t) := 72 + 132 \cdot \exp(-k \cdot t)
A least-squares function can be formed as
SS := add((u(data[j][1]) - data[j][2])^2, j = 1..N)
Now adjust k to minimize this.
```