FOR 215

Assignment 5 (Give in by Monday 3.9. 14:00) Include the final picture of every exercise to your

report. puudata.xls is used in every exercise.

Exercise 1

a) Plot the height of living crown (ELAVALARAJA) as a function of height (PITUUS). Try using

dots and lines. Which one is better?

b) Exclude the incorrect data entries (height of living crown over 40 meters) out of the picture

by changing limits of x- and y-axis.

c) Give proper names for both of the axes

d) Add a line x = y to the picture. How would you describe the observation on the line? What

about on top of the line?

Exercise 2

a) Plot height of the birches (PUULAJI=3) in the first canopy cover layer as a function of the

tree diameter.

b) Change the picture so that the observations are drawn as green circles with black border.

c) Change the style of the two differing observations as red triangles with black border (form

a new subset and draw it with points function).

Exercise 3 Exercise 2 continues…

a) Add line y=250 to the picture. Determine the color as red and the line width as 2.

b) Add line x=550 to the picture and use the same styles.

c) Add a line that travels through origin (point (0,0)) and has slope value of 1.1. Use dashed

line type and choose some nice color (available colors can be found with command

colors()).

d) Add a text into the formed rectangle (on lower right corner) that says “Erroneous

observations”.

Exercise 4

Plot the heights of the pines growing in the first canopy cover layer as a function of stem diameter.

Add the pines in the second canopy layer to the same graph. Choose such styles and colors that

the figure is easy to interpret. What can be easily deduced from the graph?