## **Activity Sheet 2**

2.	Exercise 2.1.8: For each of the following functions, determine how much the value will change if the parameter $n$ is increased fourfold: $\log_2 n$ , $\sqrt{n}$ , $n$ , $n^2$ , $n^3$ , $2^n$ .

## Section 2.2

3. Exercise 2.2.1: Using the appropriate notation, indicate the time efficiency of sequential search in the worst case, the best case and the average case.

4. Looking back at book problem 1.1.5, as in the first activity above: In terms of the sizes n and m of the two lists, describe the worst-case efficiency of the algorithm you found.