# MA0004 Mathematical Analysis 1

# 6th Seminar

Analysis of a function graph

1. Monotonicity and local extrema
2. Convexity/concavity and points of inflection

## **A. Monotonicity and local extrema**

**Inquiry-based task**

1. Work sheet - monotonicity of a function

2. Specify intervals of monotonicity and local extrema of the following functions:

a) 

b) 

c) 

d) 

e) 

f) 

## **B. Convexity/concavity and points of inflection**

**Inquiry-based task**

1. Work sheet - convexity/concavity of a function

2. Specify intervals of convexity/concavity and inflection points of the following functions:









