The exam is on Monday, November 3. During the exam you can use books and notes, both paper and electronic. The exam will consist of 4-6 problems related to some of the following topics:

- 1. The derivative of a function at a point
- 2. Continuity of the differentiable function and algebraic properties of derivatives
- 3. The derivative of the composition and of the inverse function
- 4. The derivatives of basic functions
- 5. Convex functions
- 6. Natural exponential and logarithmic functions
- 7. Local properties of differentiable functions
- 8. The mean value theorem
- 9. Analysing the behavior of a function given its derivative
- 10. Limits of the derivative and Darboux's theorem
- 11. Trigonometric functions
- 12. Higher order derivatives
- 13. L'Hospital's rules