MATH 1634, Review for the Final Exam  L2E/LXE

General information

- Exam hours: Wednesday, May. 3, 2:00-4:00 pm
- You cannot make up the final exam. No exception!
- Check the course webpage from time to time. There might be an updated information regarding the final exam.

Exam contents, sorted by topics:

1. Computation of limits and finding Asymptotes via Graphs. HOUR EXAM 1
2. Computation of limits via Limit Laws. HOUR EXAM 1
3. Computation of limits via L’Hospital’s rule. HOUR EXAM 3
4. Continuity HOUR EXAM 1
5. Computation of the first derivatives \( \frac{dy}{dx} \), including implicit differentiation. HOUR EXAM 2
6. Computation of the second derivatives \( \frac{d^2y}{dx^2} \) HOUR EXAM 2
7. Finding an equation of a tangent line. HOUR EXAM 2
8. Mean Value Theorem HOUR EXAM 3
9. Evaluating indefinite integrals and definite integrals. HOUR EXAM 4
10. Evaluate a definite integral by interpreting in terms of area. HOUR EXAM 4
11. Finding the area of the region enclosed by the curves. HOUR EXAM 4
12. Riemann Sum. HOUR EXAM 4
13. Related rates. HOUR EXAM 2
14. Sketching curves. HOUR EXAM 3
15. Optimization problems. HOUR EXAM 3

Exam contents, sorted by hour exams:

- Hour exam 1: #1,2,3
- Hour exam 2: #1,2,4,5
- Hour exam 3: #2,3,4,5,6
- Hour exam 4: #1,2,3,4

Remarks: When a number listed under “Exam contents, sorted by hour exams”, it implies that you are expected to study all those sorts. For example, Hour Exam 3 #6 implies that you need to study all the Optimizations that we covered in class.