The exam is meant for **50 minutes**. You can take no more than 60 minutes.

The exam will be on the materials covered in Sections 3.1–3.7.

You should know all the sine, cosine, and tangent values at special angles i.e., 0, π/6, π/4, π/3, π/2.

Copies of one of my old second hour exams have been distributed in class. Note that #4 on p.6 (Linear Approximation) and #5 on p.7 (Related Rates) will not be on the upcoming exam. **Do not expect the actual upcoming exam would be almost identical.**

1. Finding the derivatives $\frac{dy}{dx}$ or $\frac{d^2y}{dx^2}$ using differentiation formulae.
   - $x^n, e^x$ §3.1, 3.2
   - product rules, quotient rules §3.2
   - trigonometric functions §3.3
   - logarithmic function §3.6
   - the chain rule §3.4
   - implicit differentiation §3.5

2. Position, velocity, acceleration §3.7

3. Finding an equation of a tangent line. §3.1–3.6

*Remind you of our class policy for the missing exam:*

- **Remember the policy in case you fall sick:** You must write me an email BEFORE the exam – **no excuse!** If you fail to do so, there will be penalty.

- **If you are late for the exam, I interpret that you do so at your own risk.** There won’t be any way to make up your lost time.