

Below is a list of questions you have to ask your self while preparing for the final. The list is not exhaustive but everything super important is here!

1. Can I solve linear **and** quadratic equations?
2. Can I solve equations involving exponents (like $10(2^x) = 54.2$, for example)?
3. Do I know what break even is and how to find it if I know the profit (or the revenue and the cost)?
4. Do I know what equilibrium point is and how to find it, provided I am given the demand/supply equations?
5. Do I know when to use compounded continuously and compounded annually? Do I know how to solve problems with these two models? (the quizzes and Wiley contain plenty of examples).
6. CAN I DIFFERENTIATE USING ALL THE RULES? This is all caps for a reason. A lot of problems will contain some kind of a derivative. Also, you will get a problem like problem #3 on Exam #2.
7. Can I plug-in and evaluate functions correctly? This may seem like a joke but a lot of people simply cannot plug-in and evaluate. This is not part of the course. This was done in 7/8th grade.
8. Can I find average rate of change?
9. Do I know how to approximate a derivative using an average rate of change?
10. Can I find the slope or the equation of a tangent line at a point?
11. Can I find critical points? Can I classify them by using the 2nd derivative test **correctly**? Can I classify them by using the 1st derivative test **correctly**?
12. Can I find inflection points?
13. Can I swim? (in case you get bored from reading the long list)
14. Can I find a global min/max of a function in both cases - with or without interval provided?
15. Do I know what revenue, cost, profit, marginal revenue, marginal cost, and marginal profit are? Can I interpret them correctly?
16. Do I know what average cost is?
17. Can I find elasticity of demand if I am given two price quantity pairs OR if I am given the demand equation?
18. Can I differentiate functions of two variables? Do I know what a second order derivatives are and do I know how to find them?
19. Can I use planar approximation? (this is also in Chapter 8th)