Preview

4/12/2009 JL

Subject: Notes on Problems in 165testthreesample2009.pdf

1. Not CC - compounded quarterly

4. The correct answer (ln9)/3 can be written as ln3

8. Profit can be written as (p-10)q = 200(p-10)exp(-0.03p)

9. "consumer expenditure" means "Revenue" = p*q

10. Use "ln rules" to simplify before differentiation. No correct answer given.Correct answer is 5/(x ln(x)).

11. f(x) = e^(x^5). Answer a bit messy - use that 6^5 = 7776.

14. Now that we have FTC, the solution of the initial value problem (IVP) can be done two ways:
   - Antiderivative and solve for C using F(0) = 2
   - F(x) = 2 + fnInt(3t^2 + 1,t,0,x) (Discussed in Class 4/12)

17. Read the integrand as 9x^7 +x + 8

18. Any substitution is "valid," the one that helps is u = 4 -2t.

23. Not a simple substitution like u = Ax +B, but still a simple substitution. The integral of sqrt(x^2+9) [without the x outside] is MUCH harder.

26. Careful on units! 600 means q = 3. Somewhere you must multiply by 6000 to get dollars .

27. Draw the graph.there are really two regions enclosed. Calculate each area and add the results. Not on TestThree.

29. Looks like two regions again unless you note that x >= 0.

30. Need to solve 21 = Demand(p).

31. I got $3005.

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OK