Dear All:

You have already had lots (!) of practice by doing your homework and, by now, having reviewed all class material including the many examples we did in class *in addition* to those already in the book (I purposedly do different ones). All these examples already conform a pretty good list of problems you should try to re do **first and on your own** as *good practice problems*. Thus, by reviewing all of the above and provided you can do the problems on your own (!) you should be well prepared for the exam.

Only after having done the above (!): should you wish to practice more, here are a list of some more and fresh problems to practice. These are by no means meant to be "questions like the ones in the exam" careful with that kind of thinking....

Pgs $356 - 358 : 18, 36, 40, 42, 44, 64$

Pgs $388 - 390 : 3, 4, 63$

Pgs 400 : do variations of $62, 63$ (see examples done in class)

Pgs. $407 - 408 : 12, 13, 1454, 56 and 61$ (in 61 change to $C'(x) = 3 + xe^{-x/2}$)

Pgs. $417 - 418 : 74, 76, 77, 78, 79, 80.$

Pgs. $426 - 428 : 2a)b), 4, 8c), 14, 16, 18, 29, 35, 68, 70$

Note for problem $2b)$: Change it so that it reads "express in terms of limits first and then calculate by definition.

Also do something that asks the "viceversa" question: i.e. given the limit of a Riemann sum ask what definite integral represents if- for example- the partition increments Δx_i are given but not the interval of integration. Example : express the following limit as a definite integral:

$$\lim_{n \to \infty} \sum_{i=1}^{n} \frac{e^{x_i}}{1 + x_i} \frac{4}{n} \qquad \text{where } x_i = 1 + \frac{4}{n}$$

Pgs. $463 - 464 : 2, 5, 6, 16a)32a)$

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