EML 5060 **Homework Set 1** **Fall 2003**

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127	31	30	optimization[1] #
127	42	—	optimization
139	13b	13a	curve tracing #
139	13d	—	curve tracing* #
139	13h	13g	curve tracing #
224	44	'44'	numerical integration #
249	10c	—	limits
250	10s	10v	limits*
250	10d'	10z	limits
369	10	14	velocity and acceleration #
369	15	—	velocity and acceleration[2] #
438	—	10b	numerical approximation
439	12	—	numerical approximation
440	24	—	numerical approximation
440	29	30	numerical approximation[3]* #
461	27b	27a	absolute, relative errors
461	31	29	time-rate of changes #
477	31	—	planes #
477	35c	35b	lines and planes #
477	36ac	36b	area in space #
510	24	24a	work, conservative forces #
528	13a	—	plane area #
528	14b	14e	centroid of a plane area #
528	16d	—	moments of inertia* #
549	20b	—	volume* #
549	21a	21c	centroid of a solid #
550	22d	—	do moment of inertia I_x* #

*: Recommended question. Not required if you know you can do it. #: Make a graph. [1]: The same charge is applied to all items in an order. [2]: Last answer misses a slash. [3]: To $x = 0.5$.

Also: Make exam 1 of 1998. Give yourself 50 minutes. Include your solutions with homework set Calc II and grade yourself using the solutions on the web after you get it back.