**STUDENTS…I NEED YOUR INPUT AGAIN!!**

Please indicate your confidence level regarding your ability to perform the following MTH 127 content skills by placing an X in the correct column for each row:

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| **Skill / Math Topic** | **I *know* how to do this.** | **I *have some idea* how to do this but *need more practice*.** | **I *do not know* how to do this.** |
| Graph a function – indicate the relative extrema, inflection points, concavity, and *y*-intercept.  Ex: Graph the curve | Perception: 17 = 63%  Actual: 7 = 23% | Perception: 7 = 26%  Actual: 17 = 57% | Perception: 3 = 11%  Actual: 6 = 20% |
| Calculate derivatives using the product rule.  Ex: Determine  if . | Perception: 25 = 93%  Actual:24 = 80% | Perception: 1 = 4%  Actual: 3 = 10% | Perception: 1 = 4%  Actual:3 = 10% |
| Calculate derivatives using the quotient rule.  Ex: Determine  if . | Perception: 22 = 81%  Actual: 24 = 80% | Perception: 4 = 15%  Actual: 2 = 7% | Perception: 1 = 4%  Actual: 4 = 13% |
| Calculate derivatives using the chain rule.  Ex: Determine  if . | Perception: 15 = 56%  Actual: 10 = 48% | Perception: 8 = 30%  Actual: 5 = 24% | Perception: 4 = 15%  Actual: 6 =29 % |
| Calculate derivatives using implicit differentiation.  Ex: Determine  if . | Perception: 12 = 44%  Actual: 18 = 62% | Perception: 11=41%  Actual: 4 = 14% | Perception: 4 = 15%  Actual: 7 = 24% |
| Solve optimization problems.  Ex: Find the maximum of  if . | Perception: 15 = 56%  Actual: 17 = 57% | Perception: 11=41%  Actual: 9 = 30% | Perception: 1 = 4%  Actual: 4 = 13% |
| **Skill / Math Topic** | **I *know* how to do this.** | **I *have some idea* how to do this but *need more practice*.** | **I *do not know* how to do this.** |
| Solve economic order quantity (eoq) problems.  Ex: A furniture store expects to sell 640 sofas at a steady rate next year. The manager of the store plans to order these sofas from the manufacturer by placing several orders of the same size spaced equally throughout the year. The ordering cost for each delivery is $160, and carrying costs, based on the average number of sofas in inventory, amount to $32 per year for one sofa. Determine the economic order quantity that minimizes the inventory cost and then find the minimum inventory cost. | Perception: 11 = 41%  Actual: 20 = 67% | Perception: 14=52%  Actual: 4 = 13% | Perception: 2 = 7%  Actual: 6 = 20% |
| Solve related rates problems.  Ex: Suppose that the price *p* (in dollars) and the demand *x* (in thousands of units) of a commodity satisfy the demand equation . How fast is the demand changing at a time when  , and the price is rising at the rate of $2 per week? | Perception: 4 = 15%  Actual: 1 = 3% | Perception: 17=63%  Actual: 13 = 43% | Perception: 6 = 22%  Actual: 16 = 53% |

**ADDITIONAL HELPFUL COMMENTS CAN BE WRITTEN BELOW ☺**

don’t know what else to do

study guide for final ☺

is complicated for me

I have a bad feeling about this test ☹

I need to focus more in the next test. Also need more rest before the test. It’s all my fault.