Please print legibly

Name: ________________________________

Instructor: ____________________________

DO NOT OPEN THIS EXAM UNTIL INSTRUCTED TO DO SO.

Statement of Academic Integrity:
Any communications with any person (other than the instructor or the designated proctor) during this test in any form, including but not limited to written, signed, verbal or digital, is understood to be a violation of academic integrity.

All devices, including but not limited to, computers, cell phones, cameras and PDAs must be turned OFF while the student is in the testing room. The only calculators to be used are TI-83, TI-84, TI-83+ or TI-84+. No exceptions may be made.

The test is closed notes and closed book. No outside resources may be on your desk at any time during the testing period.

As a rule, no questions are answered during the test. It is very disruptive to other students. If you believe a question is incorrectly written, you may write a note to that effect, but do try to give the best answer you can. Your proctor will not interpret any question for you.

By signing below, the student acknowledges that (s)he has read and understands these testing conditions. In addition, the student acknowledges that (s)he has neither given nor received any inappropriate or unauthorized information at any time before or during this test.

Student Signature:

---

<table>
<thead>
<tr>
<th>Page</th>
<th>Question</th>
<th>Points Possible</th>
<th>Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multiple Choice

Scantron

Free Response

Total 100
MATH 2070  
Test 1 (Sections 5.1 – 5.6)  
Spring 2016  
Version

GENERAL DIRECTIONS:

- Show work where possible. Answers without supporting work (where work is appropriate) may receive little or no credit.
- Work in pencil only.
- Do not round intermediate calculations.
- Answers in context ALWAYS require units.
- Round your answers to 3 decimal places UNLESS the answer needs to be rounded differently to make sense in the context of the problem, OR the directions specify another type rounding, OR the complete answer has less than 3 decimal places.
- When you are asked to show the mathematical notation that leads to your answer, be as specific as possible and do not use calculator notation. i.e. Write $f(3) - f(2)$ instead of $f(b) - f(a)$ or $Y_1(3) - Y_1(2)$.
- When you are asked to write a model, include all components of a model: an equation, a description of the output including units, a description of the input including units, and the input interval when known.
- When asked to write a sentence of interpretation, answer the questions When?, What?, How? and How much? using ordinary, conversational language. Do not use math words, terms, jargon or unnecessary phrases.
- Always use a ruler when estimating values off of a graph.

HINTS FOR TROUBLESHOOTING YOUR CALCULATOR:

- If you lose your L1, L2, etc., you may reinsert them using STAT 5 (set-up editor) enter.
- The SCATTER PLOT will not show unless PLOT 1 has been turned on and there is data in L1 and L2. Turn off/on scatter plots by using the arrows to highlight the item you want off/on and using the enter key to change the status.
- DIM MISMATCH error usually means that the lists in L1 and L2 are not of equal length.
- DATA TYPE error usually means that you already have something in Y1 and you need to clear it before you can paste a new equation.
- INVALID DIM error usually means that your plot(s) are on, but that you have no data in the lists. Refer to the second hint above.
- If your batteries die, raise your hand and hold up your calculator. If your instructor has an extra calculator available, he/she will loan it to you for a few minutes.
- An unexpected 0 value when integrating an improper integral involving an exponential function may mean that you have increased the bounds beyond what the calculator can compute. Try smaller bounds.
- NO SIGN CHANGE error usually means you are attempting to solve an equation that has no solution.
- SINGULAR MATRIX error usually means you are attempting to invert a matrix that is not invertible. Check your matrix entries for errors.
- It is recommended that you enter all single-variable functions in your calculator in terms of “x”. The use of other variables may make calculations more difficult, and will prohibit the use of the graphing capabilities of your calculator.