

# Math B Regents Exam Checklist

Arrive **Thursday, June 19<sup>th</sup>** no later than 12:00 pm.  
(Rooms will be posted.)

Be sure to bring the following items:

Your graphing calculator, with its memory cleared, and a fresh set of batteries

Your **Bronx Science Picture ID**  
Students without proper ID may be barred from the exam.

No. 2 pencils  
(for scantron and graphs/diagrams)

Pens  
The exam must be written in blue or black ink, except for graphs and diagrams, which may be written in pencil.

Straightedge (ruler) and compass

Show **all** work. Be sure to follow the guidelines below:

When utilizing the graphing calculator to respond to a graphing question on the examination, a student is expected to show:

1. A sketch of the viewing window.
2. Scales indicated on the x and y axes.
3. Clearly labeled x and y intercepts and points of intersection, if needed for the solution.

When utilizing the graphing calculator to respond to a statistics question on the examination, a student is expected to show:

1. For standard deviation questions, indicate the number of scores, the mean, and the population standard deviation.
2. For regression lines, write the regression equation and, if needed, show the substitution in that equation for interpolations or extrapolations.
3. For linear correlation coefficient items include the equation of the regression line and specify how the linear correlation coefficient is used in the solution.

1. A scientific calculator is a minimum requirement for Math A. but a graphing calculator is suggested. Graphing calculators are REQUIRED for Math B. **Students should use a calculator they are familiar with.** Any student who needs a graphing calculator may borrow one from us but must return it at the end of the Regents exam. QWERTY keyboard graphing calculators (TI-92) are NOT permitted. The memory on the calculator MUST be CLEARED prior to the exam.
2. **Read instructions.** Make sure you answer the question. Don't forget to state what the variable represents. More points are lost by not reading instructions or not following directions.
3. **Coordinate axes must be labeled and numbered.**
4. **Coordinates require parentheses.** If x is 4 and y is 2, the answer 4, 2 is INCORRECT. The answer must be **(4,2)**. Parentheses can NOT be used for a solution set. Solution sets use { }
5. Show all work including the arithmetic you are doing even though the calculator does the computation. All work, including scrap, must be done in the booklet.
6. If you go further than is required and make an error, you lose points for that error. When answering a question, **write one answer.** If you write "a or b" and one of the answers is wrong, **the answer is wrong!** If the instructions say simplest form, you must reduce completely. Answers may be left in terms of pi or in radical form unless otherwise specified. You must read the instructions carefully.
7. If you fail to round properly, you will lose credit. **Do not round decimals unless instructed to do so and then only at the end of a problem.** If there are no instructions for rounding, acceptable correct answers are a minimum of four places or three places rounded.
8. Expect literacy and thinking skills to be tested. Show all work in all parts except Part I. Very often long answer questions are not that long. If work is not shown, credit will not be given! Take your time!

More specifically, particularly for Math B . . .

1. In the long questions, there can be geometric proofs including direct and indirect, numerical, coordinate geometry AND literal coordinate geometry. Prepare for any type of questions since a geometric proof and a literal coordinate geometry proof are possible.
2. You may not abbreviate sentences with letters. Statements such as CPCTAC in place of "Corr. parts of congruent triangles are congruent" **can't be used.** Math symbols, i.e.  $\cong$ , are acceptable.
3. Students proving congruence and/or similarity cannot write i.e. SAS. but must write **"two triangles are  $\cong$  if SAS  $\cong$  SAS."** Proofs in Math B have become much more common.
4. Students should draw diagrams for all proofs. The diagram, given, prove and plan should be written. Statements and reasons must be set up neatly and numbered consecutively.
5. Students using vertical, corresponding, or alt. interior angles, must write appropriate reasons.
6. An answer requiring a+bi form must be in **a+bi form.** An answer of  $-5i + 6$  is incorrect. An answer of  $\frac{4 \pm 6i}{2}$  is also incorrect.

Unreduced and  $\pm$  answers like  $\frac{4}{2} \pm \frac{6i}{2}$  are acceptable.

Tutoring is available for you. Check the department's tutoring schedule for time and place.