

**Specifications for the Regents Examination in Integrated Algebra
(First Administration–June 2008)**

The questions on the Regents Examination in Integrated Algebra will assess both the content and the process strands of New York State Mathematics Standard 3. Each question will be aligned to one content performance indicator but will also be aligned to one or more process performance indicators, as appropriate for the concepts embodied in the task. As a result of the alignment to both content and process strands, the examination will assess students' conceptual understanding, procedural fluency, and problem-solving abilities rather than assessing knowledge of isolated skills and facts.

There will be 39 questions on the Regents Examination in Integrated Algebra. The table below shows the percentage of total credits that will be aligned with each content strand.

Content Strand	% of Total Credits
1 Number Sense and Operations	6–10%
2 Algebra	50–55%
3 Geometry	14–19%
4 Measurement	3–8%
5 Probability and Statistics	14–19%

Question Types

The Regents Examination in Integrated Algebra will include the following types and numbers of questions:

Question Type	Number of Questions
Multiple choice	30
2-credit open ended	3
3-credit open ended	3
4-credit open ended	3

Calculators

Schools must make a scientific or graphing calculator available for the exclusive use of each student, including general education students and those with disabilities, while they take the Regents Examination in Integrated Algebra. Since students are not permitted to use trigonometric and logarithmic reference tables during this examination, scientific calculators must have these features. A graphing calculator is permitted but not required for this examination.

Reference Sheet

The Regents Examination in Integrated Algebra will include a reference sheet containing the formulas specified below.

Trigonometric Ratios	$\sin A = \frac{\textit{opposite}}{\textit{hypotenuse}}$
	$\cos A = \frac{\textit{adjacent}}{\textit{hypotenuse}}$
	$\tan A = \frac{\textit{opposite}}{\textit{adjacent}}$

Area	trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$
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Volume	cylinder	$V = \pi r^2 h$
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Surface Area	rectangular prism	$SA = 2lw + 2hw + 2lh$
	cylinder	$SA = 2\pi r^2 + 2\pi rh$

Formulas for Coordinate Geometry	$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$
	$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$