

**The University of the State of New York  
THE STATE EDUCATION DEPARTMENT  
Albany, New York 12234**

**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.

<b>Content Strand</b>	<b>% of Total Credits</b>
1) Number of 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:

<b>Question Type</b>	<b>Number of Questions</b>
Multiple choice (2 credits each)	30
2-credit open ended	3
3-credit open ended	3
4-credit open ended	3
Total credits	87

### **Calculators**

Schools must make a graphing calculator available for the exclusive use of each student while that student takes the Regents Examination in Integrated Algebra.

## Integrated Algebra 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	$A = \frac{1}{2}h(b_1 + b_2)$
------	-----------	-------------------------------

Volume	cylinder	$V = \pi r^2 h$
--------	----------	-----------------

Surface Area	rectangular prism	$SA = 2lw + 2hw + 2lh$
	cylinder	$SA = 2\pi r^2 + 2\pi rh$

Coordinate Geometry	$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$
---------------------	---