

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

Specifications for the Regents Examination in Geometry
(First Administration—June 2009)

The questions on the Regents Examination in Geometry 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 38 questions on the Regents Examination in Geometry. The table below shows the percentage of total credits that will be aligned with each content band.

Content Band	% of Total Credits
Geometric Relationships	8—12%
Constructions	3—7%
Locus	4—8%
Informal and Formal Proofs	41—47%
Transformational Geometry	8—13%
Coordinate Geometry	23—28%

Question Types

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

Question Type	Number of Questions
Multiple choice (2 credits each)	28
2-credit open ended	6
4-credit open ended	3
6-credit open ended	1
Total credits	86

Calculators

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

Geometry Reference Sheet

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

Volume	Cylinder	$V = Bh$ where B is the area of the base
	Pyramid	$V = \frac{1}{3}Bh$ where B is the area of the base
	Right Circular Cone	$V = \frac{1}{3}Bh$ where B is the area of the base
	Sphere	$V = \frac{4}{3}\pi r^3$

Lateral Area (L)	Right Circular Cylinder	$L = 2\pi rh$
	Right Circular Cone	$L = \pi rl$ where l is the slant height

Surface Area	Sphere	$SA = 4\pi r^2$
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