

# Geometry – Things to Remember!



## 3-D Figures:

Prism:  $V = Bh$

Pyramid:  $V = \frac{1}{3} Bh$

Cylinder:  $V = \pi r^2 h$ ;  $SA = 2\pi rh + 2\pi r^2$

Cone:  $V = \frac{1}{3} \pi r^2 h$ ;  $SA = \pi r + \pi r^2$

Sphere:  $V = \frac{4}{3} \pi r^3$ ;  $SA = 4\pi r^2 = \pi d^2$

## Regular Solids:

Tetrahedron – 4 faces

Cube – 6 faces

Octahedron – 8 faces

Dodecahedron – 12 faces

Icosahedron – 20 faces

## Triangles:

### By Sides:

Scalene – no congruent sides

Isoceles – 2 congruent sides

Equilateral – 3 congruent sides

### By Angles:

Acute – all acute angles

Right – one right angle

Obtuse – one obtuse angle

Equiangular – 3 congruent angles ( $60^\circ$ )

Equilateral  $\leftrightarrow$  Equiangular

Exterior angle of a triangle equals the sum of the 2 non-adjacent interior angles.

Mid-segment of a triangle is parallel to the third side and half the length of the third side.

## Similar Triangles:

AA

SSS for similarity

SAS for similarity

Corresponding sides of similar triangles are in proportion.

## Locus Theorems:

Fixed distance from point.



Fixed distance from a line.



Equidistant from 2 points.



Equidistant 2 parallel lines.



Equidistant from 2 intersecting lines



## Congruent Triangles

SSS

SAS

ASA

AAS

HL (right triangles only)

NO donkey theorem (SSA or ASS)

CPCTC (use after the triangles are congruent)

## Inequalities:

--Sum of the lengths of any two sides of a triangle is greater than the length of the third side.

--Longest side of a triangle is opposite the largest angle.

--Exterior angle of a triangle is greater than either of the two non-adjacent interior angles.

## Mean Proportional in Right Triangle:

Altitude Rule:

$$\frac{\text{part of hyp}}{\text{altitude}} = \frac{\text{altitude}}{\text{other part hyp}}$$

Leg Rule:

$$\frac{\text{hypotenuse}}{\text{leg}} = \frac{\text{leg}}{\text{projection}}$$

# Math Regents Exams 2013 Answer Key

**N Noddings**



## **Math Regents Exams 2013 Answer Key:**

**Problem-solving Strategies In Mathematics: From Common Approaches To Exemplary Strategies** Alfred S Posamentier, Stephen Krulik, 2015-03-05 This book introduces ten problem solving strategies by first presenting the strategy and then applying it to problems in elementary mathematics In doing so first the common approach is shown and then a more elegant strategy is provided Elementary mathematics is used so that the reader can focus on the strategy and not be distracted by some more sophisticated mathematics **El-Hi Textbooks & Serials in Print, 2000** ,2000 *El-Hi Textbooks & Serials in Print, 2003* ,2003 Beyond the Bubble Test Linda Darling-Hammond, Frank Adamson, 2014-06-16 Performance assessment is a hot topic in school systems and educators continue to analyze its costs benefits and feasibility as a replacement for high stakes testing Until now researchers and policymakers have had to dig to find out what we know and what we still have to learn about performance assessment Beyond the Bubble Test How Performance Assessments Support 21st Century Learning synthesizes the latest findings in the field and not a moment too soon Statistics indicate that the United States is in danger of falling behind if it fails to adapt to our changing world The memory and recall strategies of traditional testing are no longer adequate to equip our students with the skills they need to excel in the global economy Instead teachers need to engage students in deeper learning assessing their ability to use higher order skills Skills like synthesizing information understanding evidence and critical problem solving are not achieved when we teach to multiple choice exams Examples in Beyond the Bubble Test paint a useful picture of how schools can begin to supplement traditional tests with something that works better This book provides new perspectives on current performance assessment research plus an incisive look at what s possible at the local and state levels Linda Darling Hammond with a team of leading scholars bring together lessons learned new directions and solid recommendations into a single readily accessible compendium Beyond the Bubble Test situates the current debate on performance assessment within the context of testing in the United States This comprehensive resource also looks beyond our U S borders to Singapore Hong Kong and other places whose reform mindedness can serve as an example to us Resources in Education ,2001 Building a Culture of Hope Robert D. Barr, Emily L. Gibson, 2013-05-20 Research demonstrates that children of poverty need more than just academic instruction to succeed Discover a blueprint for turning low performing schools into Cultures of Hope The authors draw from their own experiences working with high poverty high achieving schools to illustrate how to support students with an approach that considers social as well as emotional factors in education **El-Hi Textbooks in Print** ,1984 Most Likely to Succeed Tony Wagner, Ted Dintersmith, 2015-08-18 An urgent call for the radical re imagining of American education so that we better equip students for the realities of the twenty first century **Answer Key for Course III Regents Examinations** ,2008-09-01 Answer Key for Past New York State Regents Exams in Course III **Paperbound Books in Print** ,1992 Books in Print ,1977 *Single Exams for Integrated Algebra Practice Tests for Regents Examinations* ,2008-09-01

Answer Key for Past New York State Regents Exams in Integrated Algebra      *Who's who in the Midwest* ,1996

**Roadmap to the Regents** David S. Kahn, Princeton Review (Firm), 2003 A guide to preparing for the Regents Mathematics B exam that provides an overview of the mathematical skills covered on the exam along with study tips review questions and full length practice exams      Regents Exams and Answers ,1958      **Regents Exams and Answers: Geometry, Sixth Edition** Barron's Educational Series, Andre, Ph.D. Castagna, 2025-01-07 Barron's Regents Exams and Answers Geometry provides essential review for students taking the Geometry Regents including actual exams administered for the course thorough answer explanations and comprehensive review of all topics This edition features Three actual administered Regents exams so students can get familiar with the test plus one new sample test for the most recent exam changes for June 2025 Fully revised and up to date review and practice grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies All geometry topics are covered such as basic angle and segment relationships parallel lines polygons triangle relationships constructions transformations triangle congruence and writing proofs similarity and right triangle geometry parallelograms circles and arcs coordinate geometry and volume modeling 3 D shapes in practical applications Publisher's Note Products purchased from 3rd party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product      **Barron's Regents Exams and Answers, Math B** Lawrence S. Leff, 2004      *Barron's Regents Exams and Answers* Lawrence S. Leff, 2007      **Barron's Regents Exams and Answer** Stanley Kaplan, 1983-01-01      **Barron's Regents Exams and Answers** Inc. Kaplan, 1982-11-01

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