



Lesson 7: Secant and the Co-Functions

Student Outcomes

- Students define the secant function and the co-functions in terms of points on the unit circle. They relate the names for these functions to the geometric relationships among lines, angles, and right triangles in a unit circle diagram.
- Students use reciprocal relationships to relate the trigonometric functions to each other and use these relationships to evaluate trigonometric functions at multiples of 30, 45, and 60 degrees.

Lesson Notes

The geometry of the unit circle and its related triangles provide a clue as to how the different reciprocal functions got their names. This lesson draws out the connections among tangent and secant lines of a circle, angle relationships, and the trigonometric functions. The names for the various trigonometric functions make more sense to students when viewed through the lens of geometric figures, providing students with an opportunity to practice MP.7. Students make sense of the domain and range of these functions and use the definitions to evaluate the trigonometric functions for rotations that are multiples of 30, 45, and 60 degrees.

The relevant vocabulary upon which this lesson is based appears below.

SECANT FUNCTION (description): The secant function,

$$\sec: \{x \in \mathbb{R} \mid x \neq 90 + 180k \text{ for all integers } k\} \rightarrow \mathbb{R}$$

can be defined as follows: Let θ be any real number such that $\theta \neq 90 + 180k$ for all integers k . In the Cartesian plane, rotate the initial ray by θ degrees about the origin. Intersect the resulting terminal ray with the unit circle to get a point (x_θ, y_θ) . The value of $\sec(\theta^\circ)$ is $\frac{1}{x_\theta}$.

COSECANT FUNCTION (description): The cosecant function,

$$\csc: \{x \in \mathbb{R} \mid x \neq 180k \text{ for all integers } k\} \rightarrow \mathbb{R}$$

can be defined as follows: Let θ be any real number such that $\theta \neq 180k$ for all integers k . In the Cartesian plane, rotate the initial ray by θ degrees about the origin. Intersect the resulting terminal ray with the unit circle to get a point (x_θ, y_θ) . The value of $\csc(\theta^\circ)$ is $\frac{1}{y_\theta}$.

COTANGENT FUNCTION (description): The cotangent function,

$$\cot: \{x \in \mathbb{R} \mid x \neq 180k \text{ for all integers } k\} \rightarrow \mathbb{R}$$

can be defined as follows: Let θ be any real number such that $\theta \neq 180k$ for all integers k . In the Cartesian plane, rotate the initial ray by θ degrees about the origin. Intersect the resulting terminal ray with the unit circle to get a point (x_θ, y_θ) . The value of $\cot(\theta^\circ)$ is $\frac{x_\theta}{y_\theta}$.

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Helping Students Understand Algebra II, Grades 7 - 12 Barbara R. Sandall, Ed.D., Mary Swarthout, Ph.D., 2005-04-01 Help students make the transition from Algebra to Algebra II with activities that simplify algebraic concepts step by step instructions with examples practice problems real life applications a list of symbols and terms tips answer keys and references Use as a full unit a supplement to the curriculum or a tutorial that students can take home to reinforce classroom lessons Supports NCTM standards *Algebra 2 Chapter 7 Resource Masters* McGraw-Hill Staff, 2002-05-01 **Algebra II Practice Book, Grades 7 - 8** Barbara R. Sandall, Melfried Olson, Travis Olson, 2008-09-02 Make algebra equations easy for students in grades 7 and up using Algebra II Practice This 128 page book is geared toward students who struggle in algebra II and covers the concepts of inequalities linear equations polynomial products and factors rational expressions roots radicals complex numbers quadratic equations and functions and variations The book supports NCTM standards and includes clear instructions examples practice problems definitions problem solving strategies an assessment section answer keys and references **Summit Math Algebra 2 Book 7** Alex Joujan, 2020-01-04 Learn math in a guided discovery format These teaching textbooks are designed to let students learn at their own pace Summit Math books are for curious students who want learning to feel like a journey The scenarios are arranged to show how new math concepts are related to previous concepts they have already learned Students naturally learn at different paces and these books help teachers manage flexible pacing in their classes Learn more at www.summitmathbooks.com Topics in this book Introduction to exponential patterns Exponential sequences Connecting exponential growth and percent changes Exponential decay Exponential functions Exponents review Equations review Writing an exponential function given 2 points Graphs of exponential functions More exponential scenarios Cumulative review Answer key Book description In this book students learn that exponential patterns come from repeated multiplication They also learn that exponential patterns can be viewed as repeated percentage changes They investigate scenarios that involve both exponential growth and decay They learn how to graph exponential functions They also learn how to use systems of equations to find the equation for an exponential function when they know 2 points This book builds on Algebra 1 Book 1 and Algebra 2 Book 6 Student testimonials This is the best way to learn math Summit Math books are unlike typical textbooks It doesn't matter how you learn or what speed you go at you can learn at your own pace while still understanding all the material Summit Math Books have guided me through algebra They are the stepping stones of what it takes to think like a mathematician I really enjoy learning from these books they clearly demonstrate how concepts are built over other concepts You don't just memorize you actually understand it Parent testimonials Summit Math Books not only helped my daughter learn the math they helped her to love learning math in and of itself Summit Math books have a fun self-paced way to explain math concepts I am absolutely thrilled with this math program The books are so well organized and the content builds from one lesson to the next We are really impressed and grateful for our boys

understanding of what the math means not just how to get problems right we should all learn to understand math this way As the mother of a teenage daughter who previously had occasional difficulty in math it was refreshing to watch her actually enjoy her math class and to understand the subject matter without struggling I have three kids that have used Summit Math Using these books they have more freedom to learn and explore at their own pace during class with notes already incorporated within the book Teacher testimonials Summit Math allows students to work at their own pace which allows me the opportunity to provide individualized attention to those who need it Summit Math emphasizes understanding concepts rather than memorizing rules Students take ownership while acquiring the necessary skills to solve meaningful math problems It has been a real benefit having problem sets that are explicitly designed to guide students through the development of their understanding of the how and why behind the concepts they are studying See more testimonials at www.summitmathbooks.com **Algebra 2** McDougal Littell Incorporated, Ron Larson, 2004 *Algebra II Unit 7 (RES)* Responsive Education Solutions Staff, 2013-08-01 Concepts of Algebra I will be reviewed and extended This course requires a degree of mathematical maturity on the part of the student Topics covered will be irrational and imaginary numbers functional relationships linear quadratic exponential logarithmic absolute value square root and rational conic sections and uses of algebra to analyze and solve problems *Algebra 2 Chapter 6 Resource Masters* McGraw-Hill Staff, 2002-05
Algebra 2 Transparency Book: McDougal Littell, 2006-08-22

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