



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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