

Graphing Transformations of Tangent, Cotangent, Secant, and Cosecant Functions

by Sophia



WHAT'S COVERED

In this lesson, you will analyze the graphs of the remaining four trigonometric functions and their transformations. Specifically, this lesson will cover:

1. Transforming the Graphs of the Secant and Cosecant Functions
2. Transforming the Graphs of the Tangent and Cotangent Functions

1. Transforming the Graphs of the Secant and Cosecant Functions

Recall that $\sec x = \frac{1}{\cos x}$, meaning that if the value of $\cos x$ is known, then $\sec x$ is its reciprocal.

Consider now this table of values.

x	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
$y = \cos x$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	0	1
$y = \sec x$	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	undef.	-1	undef.	1

Since $\sec x = \frac{1}{\cos x}$, we can build the graph of the secant function from the cosine function, as shown in the figure below.

Tangent And Secant Transformations Key

Oswaal Editorial Board



Tangent And Secant Transformations Key:

Tangent And Secant Transformations Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Tangent And Secant Transformations Key**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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