



Inverse Trigonometric Functions

Today's Standard

HSF.TF.B6 - (+) Understand that restricting a trigonometric function to a domain on which it is always increasing or always decreasing allows its inverse to be constructed.

Real-World Applications for this Standard

Engineering: Calculating angles in mechanical systems.; Astronomy: Determining positions of celestial objects.; Medical Imaging: Analyzing wave patterns in MRI scans.

Today I Learned

Today we learned about how we can change trigonometric functions so they can be reversed. This helps us solve tricky math problems.

Common Stumbling Blocks

Some students think that trigonometric functions can be reversed everywhere, but they can't. Others confuse the inverse with the reciprocal, which is different.

Quiz Me

- What is an inverse function?
- Why do we restrict the domain of a function?
- Can all trigonometric functions be reversed?
- What is a common mistake students make with inverse functions?
- Name a real-world use of inverse trigonometric functions.

Help Me

Trigonometric functions help us measure angles and waves. By changing them so they can be reversed, we can solve problems in engineering and astronomy.