Solving Trigonometric Equations with Inverse Functions

Today's Standard

HSF.TF.B7 - (+) Use inverse functions to solve trigonometric equations that arise in modeling contexts; evaluate the solutions using technology, and interpret them in terms of the context.*

Cues	Notes
Inverse Trigonometric Functions	Inverse trigonometric functions are used to find angles from given ratios.
Trigonometric Equations	Trigonometric equations often arise in real-world modeling contexts.
Modeling Contexts	Technology can assist in solving and visualizing these equations.
Technology in Trigonometry	Trigonometric equations can have multiple solutions due to their periodic nature.
Multiple Solutions	Interpret solutions in the context of the problem to ensure they make sense.

Summary

This standard focuses on using inverse trigonometric functions to solve equations in modeling contexts, emphasizing the use of technology and the interpretation of multiple solutions.