Solving Exponential Equations with Logarithms

Today's Standard

HSF.LE.A4 - For exponential models, express as a logarithm the solution to ab^ct = d where a, c, and d are numbers and the base b is 2, 10, or e; evaluate the logarithm using technology.

Cues	Notes
Exponential Models	Exponential models can be expressed as logarithms.
Logarithms	Logarithms are the inverse of exponential functions.
Bases (2, 10, e)	Common bases for logarithms are 2, 10, and e.
Evaluate using Technology	Technology like calculators can be used to evaluate logarithms.
Real-World Applications	Applications include population growth, radioactive decay, and financial modeling.

Summary

Understanding how to express exponential models as logarithms and evaluate them using technology is crucial for analyzing growth and decay in various real-world contexts.