

Parent Guide to the

# Trigonometric Addition and Subtraction Formulas

## Today's Standard

HSF.TF.C9 - (+) Prove the addition and subtraction formulas for sine, cosine, and tangent and use them to solve problems.

## Real-World Applications for this Standard

Calculating angles in navigation and aviation; Designing and analyzing wave patterns in engineering; Solving physics problems involving oscillations and waves; Modeling periodic phenomena in economics and biology

### Today I Learned

Today, we learned about special math formulas for sine, cosine, and tangent. These help us solve tricky problems and are important for things like navigation and engineering.

## **Common Stumbling Blocks**

Sometimes, students mix up the formulas for sine, cosine, and tangent. Another common problem is thinking these formulas aren't useful in real life. But they are very helpful in many jobs!

#### Quiz Me

- What are sine, cosine, and tangent?
- Can you name one use for these formulas?
- Why is it important to know these formulas?
- What happens if we mix up the formulas?
- How can these formulas help in real life?

## Help Me

These math formulas help us figure out angles and distances. For example, pilots use them to navigate planes, and engineers use them to design buildings and bridges.