Vector Components Calculation

Today's Standard

HSN.VM.A2 - (+) Find the components of a vector by subtracting the coordinates of an initial point from the coordinates of a terminal point.

Real-World Applications for this Standard

Navigating using GPS coordinates; Modeling physics problems involving displacement; Engineering design involving forces; Computer graphics transformations

Today I Learned

Today we learned how to find the parts of a vector by subtracting one set of coordinates from another. This helps us understand direction and movement.

Common Stumbling Blocks

Kids might mix up the order of subtraction, which changes the direction of the vector. They might also think vectors and coordinates are the same, but vectors show direction and size.

Quiz Me

- What is a vector?
- How do you find the parts of a vector?
- What do you subtract first?
- Are vectors the same as coordinates?
- Why is the order of subtraction important?

Help Me

Finding vector parts helps us understand direction and movement, like in GPS or games. We subtract the starting point from the ending point to see how far and in what direction something has moved.