



Vector Addition and Subtraction

Today's Standard

HSN.VM.B4 - (+) Add and subtract vectors.

Cues	Notes
What is a vector?	A vector is a quantity that has both magnitude and direction.
How do you add vectors?	To add vectors, place them head to tail and draw the resultant vector from the tail of the first to the head of the second.
What is a common mistake when subtracting vectors?	A common mistake is ignoring the direction and treating vectors like scalars.
Why is direction important in vector operations?	Direction is crucial because vectors represent quantities that are not only about size but also about the direction in which they act.
Give an example of a real-world application of vector addition.	GPS navigation uses vector addition to calculate the shortest path between two points.

Summary

Vectors are quantities with magnitude and direction. Adding and subtracting vectors requires consideration of both these properties, and is essential for solving real-world problems in fields like physics and engineering.