- 4.2 Vector Addition
- 4.2 I can add and subtract vectors graphically.
- 4.3 I can add and subtract vectors using the component method.







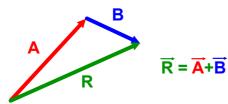
2 Methods of Adding Vectors

- 1. Graphical Method
 - « Head-to-Tail Addition



Graphical Method: Head-to-Tail Addition

Adding vectors graphically: Place the tail of the second at the head of the first. The sum points from the tail of the first to the head of the last.

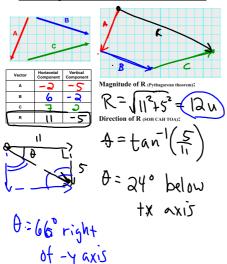


Component Method

Adding Vectors Using Components:

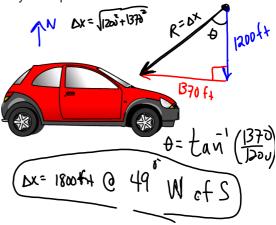
- 1. Find the components of each vector to be added.
- 2. Add the *x* and *y*-components separately.
- 3. Find the resultant vector.

Example 2: Vector Addition



THE COMPONENTS OF A VECTOR

You drive a car 1200 ft to the south, then 1370 ft to the west. What is the magnitude and direction of your displacement?



HOMEWORK

- Worksheet
- Unit 4 Problems (1-4)