

components:

resultant:

When components act in the same direction, _____.

When components act in the opposite direction, _____.

If components act at right angles, there two ways to approach the problem:

_____ & _____

Ex. A boy walks 9.0 km north and then 6.5 km east. What is his resultant displacement? *Solve this on graph paper using the Graphing Method (also called _____ to _____)*

Head to Tail Method:

- Start with _____
- Draw the _____ vector first.
- Then draw the next vector, _____
- Draw the resultant from the big _____ to the last _____.
- Measure the _____ of the resultant with a _____ of the same _____.
- Finally, measure the _____, placing the _____ of the protractor on the _____ component's axis.
- State the answer in the complete form. Ex. _____