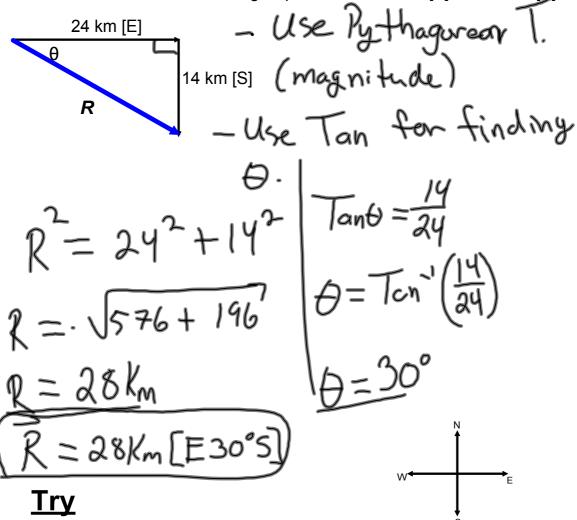
## **Examples - Finding a Resultant Analytically**

(no scale needed)

## Solution must include:

Labelled sketch ( $\mathbf{R}$ ,  $\theta$ , and arrows) magnitude of  $\mathbf{R}$  and direction of  $\mathbf{R}$ .

1. Find the resultant of the following displacements: 24 km [E] and 14 km [S].



2. Find the resultant of the following accelerations: 12 m/s² [N] and 5.5 m/s² [W] 

13 m/s² [W65°N]

3. Find the resultant of the following displacements: 34 m [W] and 42 m [S].

54 m [W51°S]

Class Work: Resultant Vectors Worksheet - Part 2