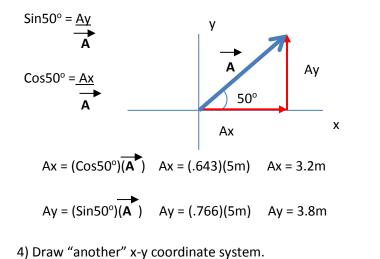
## Vector Addition Example 2

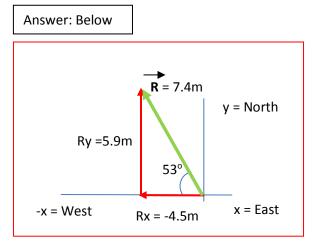
Given: Two or more vectors to be added together to find the Resultant vector R. Example: Vector  $\overrightarrow{A} = 5.0$  m is 50° North of (from) East. Vector  $\overrightarrow{B} = 8.0$  m is 75° West of (from) North 1) Draw Rough Graphical Sketch +y = North  $\overrightarrow{75^{\circ}}$  Draw Vectors Tip-to-Tail -x = West +x = East

Need to find vector components for **A** and **B** and add them to get resultant components for **R**.

## 2) Draw a x-y coordinate system

3) Draw first vector starting from the origin and find components Ax and Ay. (Remember SOH CAH TOA)





5) Draw second vector starting from the origin and find components. 6) Draw table and **ADD** components.

