

Wind Direction Help Sheet - Synoptic II (COURTESY DR. ERIC HOFFMAN @ PLYMOUTH STATE UNIV.)

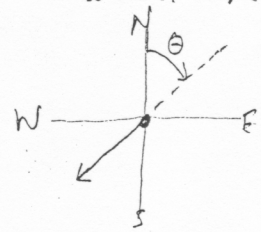
Meteorological Wind Direction - "coming from", angle is measured from north.

Example: North east wind 15 kts @ 45°

Weather Plot:

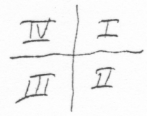


Mathematical Vector



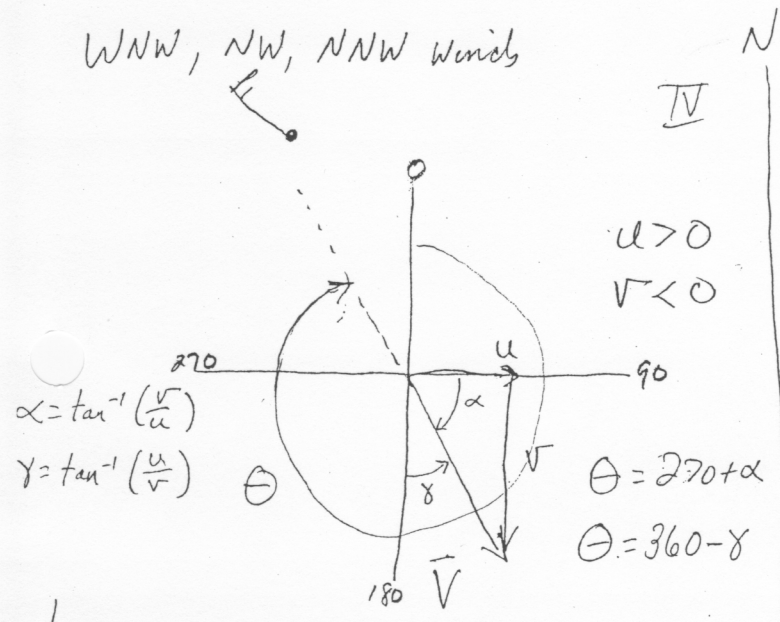
$\theta = 45^\circ$
 $|\vec{V}| = \text{length of arrow}$

A closer look at winds in each quadrant

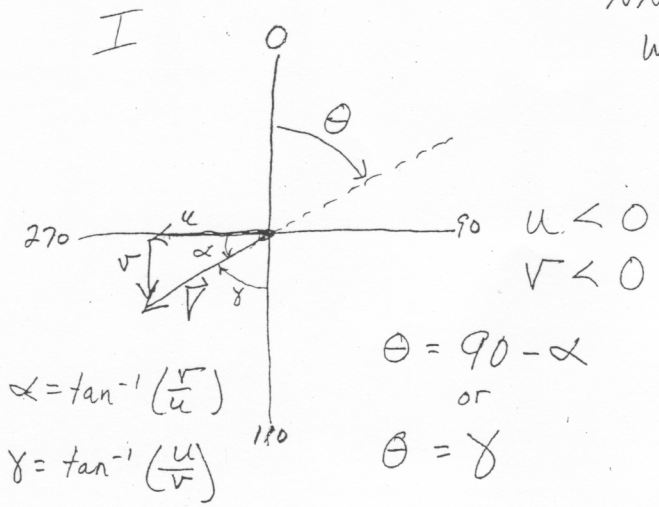


$\theta = \text{meteorological wind direction}$

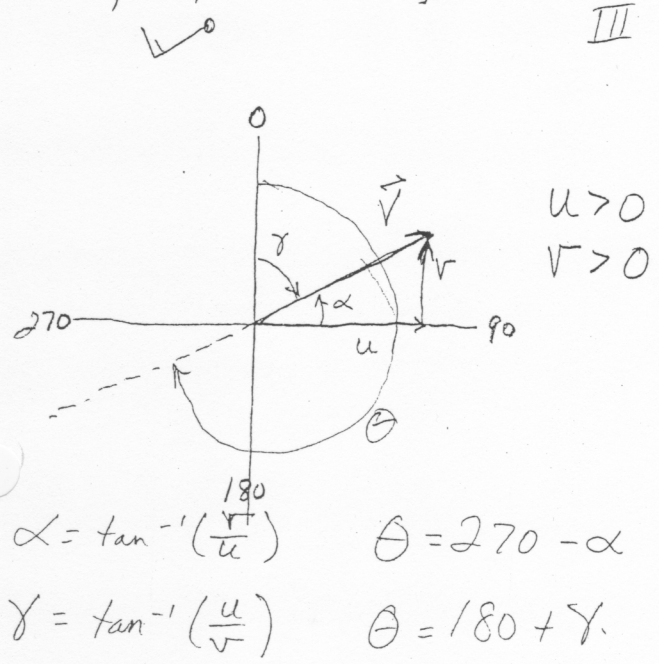
WNW, NW, NNW winds



NNE, NE, ENE winds



SSW, SW, WSW winds



ESE, SE, SSE winds

