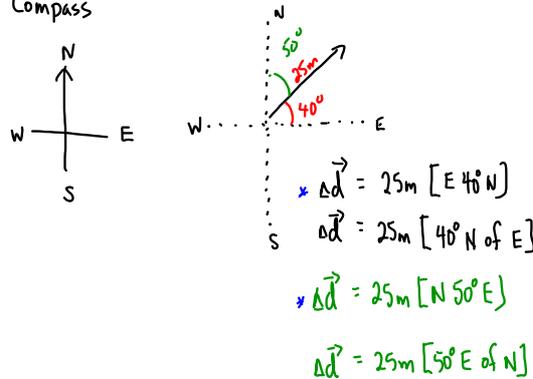


Vectors + Directions

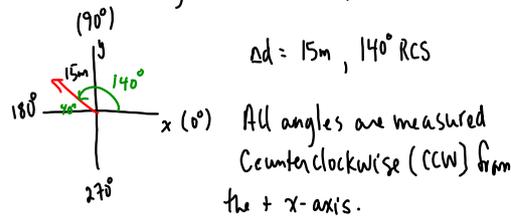
Recall that a vector has both magnitude (size) and direction.

So how do we express direction?

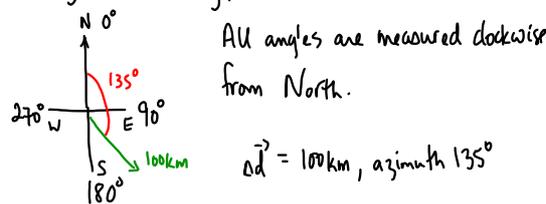
① Compass



② RCS - rectangular coordinate system



③ Azimuth (bearing)

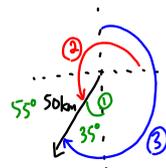


VECTORS have two parts: head and tail

* measure all angles at the tail



Example



① Compass

$\vec{d} = 50\text{km} [S 35^\circ W]$

$\vec{d} = 50\text{km} [W 55^\circ S]$

② RCS

$\vec{d} = 50\text{km}, 235^\circ \text{ RCS}$
 ($180^\circ + 55^\circ$)

③ Azimuth

$\vec{d} = 50\text{km}, \text{azimuth of } 215^\circ$
 ($180^\circ + 35^\circ$)