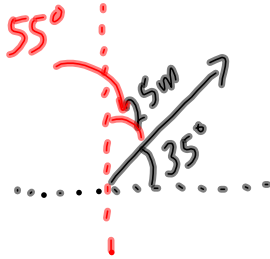
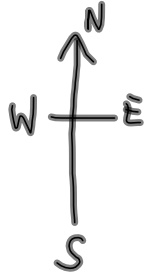


Vectors + Directions

Recall that a vector has both magnitude (size) + direction.
So how do you express direction?

① Compass



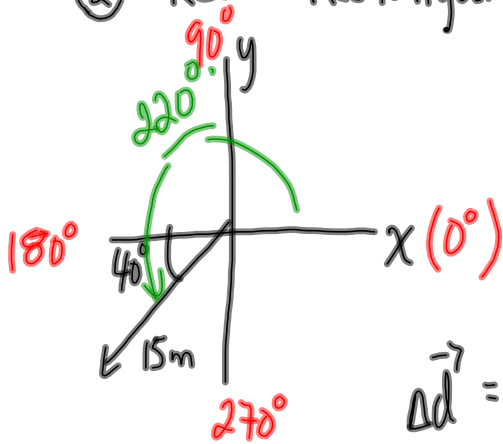
$$\vec{\Delta d} = 25\text{m} [E 35^\circ N]$$

$$\vec{\Delta d} = 25\text{m} [35^\circ \text{ N of } E]$$

$$\vec{\Delta d} = 25\text{m} [N 55^\circ E]$$

$$\vec{\Delta d} = 25\text{m} [55^\circ \text{ E of } N]$$

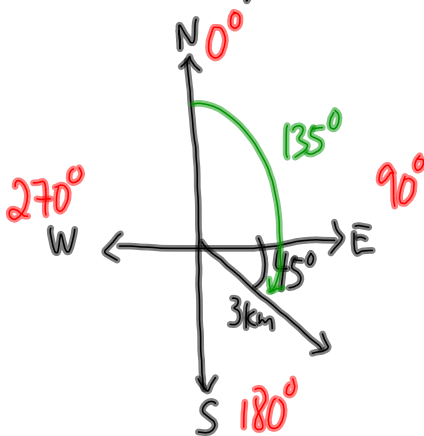
② RCS - Rectangular Coordinate System



All angles are measured with respect to the + x-axis in a CCW direction.

$$\vec{\Delta d} = 15\text{m } 220^\circ \text{ RCS}$$

③ Bearings or Azimuths



All directions are measured CW from North.

$$\vec{\Delta d} = 3\text{km bearing } 135^\circ$$