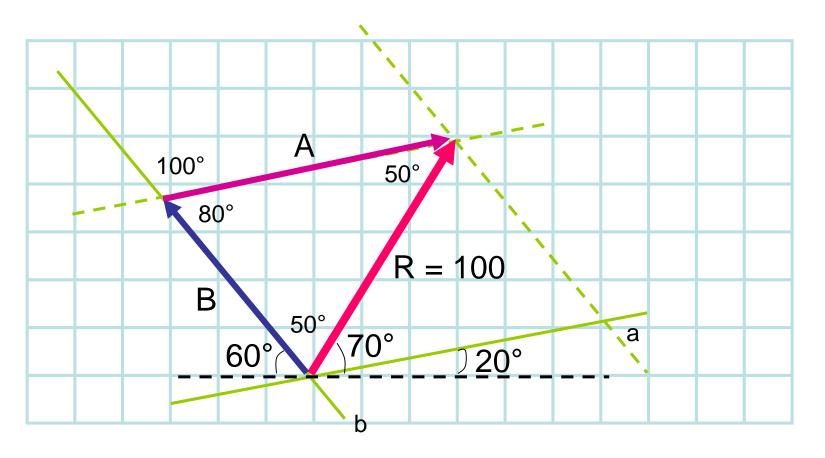
## Resolution of a Vector

- Given vector  $\hat{R}$
- Find A+B=R where directions, but not magnitudes of vectors A and B, are given
- Handy in many real life situations

Find  $\vec{A} \& \vec{B}$  along given axes such that  $\vec{R} = \vec{A} + \vec{B}$ 



$$\frac{\sin(80^\circ)}{100} = \frac{\sin(50^\circ)}{B} = \frac{\sin(50^\circ)}{A} \quad A = B = 100 \frac{\sin(50^\circ)}{\sin(80^\circ)} = 77.79$$