## Resolution of a Vector

- Given vector $\vec{R}$
- Find $\vec{A}+\vec{B}=\vec{R}$ 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 $\vec{R}=\vec{A}+\vec{B}$

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

