GREAT AMERICA LAB
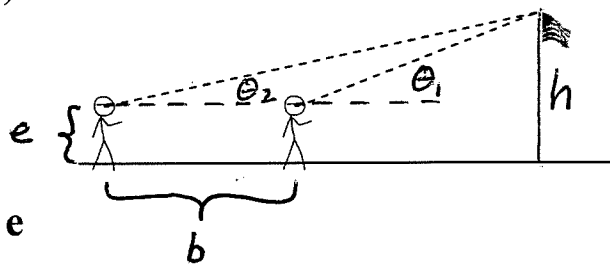## NOTE: This sheet applies to <u>all</u> students! Worth 5 points.

Lab report requirement:
- Full group lab report, worth 45 points, due Friday May 10
- Groups to consist of 3-4 students
- All measurements/calculations to be in <u>metric</u> units

Calculate the height of the SPASH flagpole:

Ht of Eye e (m)		Pace distance b (m)	Angle 1	Angle 2	Height (m)

BEWARE: Measure angles moving <u>directly</u> toward or away from pole
Make sure measurements are taken on level ground
Choose a convenient pace distance(say 10 steps)

Calculation: $h = b\left(\sin\theta_1 \sin\theta_2 / \sin(\theta_1 - \theta_2)\right) + e$