

Name \_\_\_\_\_

### ***GREAT AMERICA LAB***

**NOTE:** This sheet applies to all students! Worth 5 points.

#### **Lab report requirement:**

- Full group lab report, worth 40 points, will be due Monday May 21
- Groups to consist of 3-4 students
- All measurements/calculations to be in metric units

#### **Calculate the height of the SPASH flagpole:**

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

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

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