

> INTRODUCTION This
> APPLICATION will have you practice adding vectors. Guatemala to Mexico City is 600 miles at $45^{\circ}$ above west. Mexico City tp Monterrey is $\mathbf{4 0 0}$ miles $80^{\circ}$ above westerly direction. Monterrey to Houston is 400 miles at $40^{\circ}$ above easterly direction.
> QUESTION: Find magnitude and direction of Resultant vector displacement Guatemala to Houston? Thus, find magnitude \& direction. Show all, calculations

> ANSWER: R(magnitude) $=\sim 1091$ miles @~ $80^{\circ}$ North of west.

> COMMENT: Total Smuggle cost $\sim \$ 13,000$

