Physics 1303/1403 Spring 1997

Name:_____

ID number:_____

1. Express the following in scientific notation. Pay attention to significant figures.

(a) 435.000

(b) 0.000314

2. The continent of India is moving slowly toward that of Asia at a speed of 5 $\frac{\text{centimeters}}{\text{century}}$. How fast is this in $\frac{\text{meters}}{\text{second}}$?

- 3. The vector \vec{A} is 1 inch long and points North-West. The vector \vec{B} is 1 inch long and points South-West.
 - (a) What is the direction of $\vec{A} + \vec{B}$?

(b) What is the direction of $\vec{A} - \vec{B}$?

(c) What is the magnitude of $\vec{A} - \vec{B}$?