PHYS 221 Prelab   **Odd version**   **Name**_____ **Sec____**

Experiment 3 — Vector Addition   **Lab Meets_____**

1. What is the objective of this experiment?

2. What is an *equilibrant?*

3. How does the force table apparatus work?

4. What is a vector?

5. Add the given vectors by the *component method*, by completing the table below. **Show all work** (i.e., all calculations). What is the angle of the resultant vector with respect to the *x*-axis? Use the back of this sheet if necessary.

   A = 8.0 N at 235,   **B** = 3 N at 105°,   **C** = 5 N at 45°

Vector	x component (N)	y-component (N)
A		
B		
C		
A+B+C		