PHYS 221
Experiment 2 — Vector Addition
Prelab

1. What is the objective of this experiment? (1pt.)

2. What is a vector? (2 pt.)

3. How does the force table apparatus work? (2 pt.)

4. What is the *equilibrant* ? (1 pt.)

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. (4 pts.)

   A = 6.0 N at 135°, **B** = 3.0 N at 225°, **C** = 8.7 N at 350°

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