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°