QUESTIONS TO HAND IN–EXPERIMENT 5

NAME_____

LAB INSTRUCTOR_____LAB DAY/TIME_____

1. A force of 5 newtons is applied at an angle of 30°. Find the x- and the y-components of this force.

2. Two forces **A** and **B** have magnitudes of 5 N and 10 N, respectively. What is the magnitude and direction of their sum when they both lie along the same direction?

3. Using the same two vectors as in problem 2 above, what is the magnitude and direction of their sum when **A** is oriented at 0° and **B** is oriented at 180°?

4. Using the same two vectors as in problem 2 above, what is the magnitude and direction of their sum if **A** is oriented at 0° and **B** is oriented at 90°?

5. What is the difference between **A** and **B** (the <u>vector</u> **A** – **B**) when they are both oriented in the same direction?