Name:_____

Quiz 1

1. Assume that ||v|| = 2, ||w|| = 3, and the angle between v and w is 120°. What is ||2v + w||? (9pts.)

- 2. Consider a fluid flowing through a pipe. Imagine a slice or cross-section of the pipe. Then, the **flux** refers to: (1 pt.)
 - (a) the velocity of the fluid.
 - (b) the volume of fluid that flows across the cross-section per unit time.
 - (c) the area of the cross-section times the amount of time the fluid was flowing.
 - (d) the friction between the fluid molecules and the perimeter of the cross-section.