GSE Precalculus Practice Worksheet Dot Product

1. Compute ****

a. **u** = <2,3> and **v =** <0,5> b. **u** = <3,0> and **v =** <0,-2>

c. **u** = <-2,1> and **v** = <2,4> d. **u** = 2i – 5j and **v** = -4i + 10j

2. Which of the vectors in #1 are orthogonal? Which of them are parallel?

Use the vectors **u =  ,**  and  to find the indicated quantity. Show all work.

3.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the angle between the vectors **u** and **v**

9. **u** = and **v** = 10.  and 