

**Calculus Worksheet #3 Unit 2 page 1 \_\_\_\_\_**

**Find the acute angle between the graphs of the given functions at each point where they intersect. Show your work and your solutions neatly organized.**

1.  $y = x^2$   
 $y = 3x$

2.  $y = x^2 + 2x$   
 $y = x + 2$

3.  $y = x^2 - 5x + 1$   
 $y = -x^2 + 3x - 5$

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Find the acute angle between the functions at each point where they intersect.

4.  $y = 2x^2 + x - 10$   
 $y = -x^2 - 5x + 14$

5.  $y = x^3 + x^2 - 4x + 3$   
 $y = 2x + 3$

6.  $y = x^3 + x^2 - 1$   
 $y = -x^2 + x + 1$