**2.4 The Product Rule**

Based on what we did last day (Sum and Difference Rules), the following may seem “obvious” to you:



Let’s see if it is true.

If:  

Then: 



**The Product Rule**

If both *f* and *g* are differentiable, then so is *fg* and





If:  

Find: 

Find  if 

Differentiate  and simplify.

Find the slope of the tangent to the graph of the function  at the point .