**2.5 The Quotient Rule**

Some rational functions can be simplified to allow use of the Power Rule when finding the derivative.

 Ex. 

But other rational functions are not easy (or even possible) to simplify to allow use of the Power Rule. Thus, we need another rule!

**Quotient Rule**

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

 

 

Find  if 

Find  if 

Differentiate: 