Calculus Section 2.3 Quotient Rule and Trig Derivatives

Homework: page 125 #’s 7, 9, 11, 40, 43-46, 65, 75, 81b, 82b, 86, 95, 98, 103-106, 108.

-Find the derivative using the quotient rule  
-Memorize and know the trig derivatives

**Quotient Rule**  
When two differentiable functions are divided, the resulting function is also differentiable. Let *f* and *g* be differentiable functions, then is also differentiable. Moreover, the derivative is:

, g(x) ≠0

This derivative is said: “Low d-high, minus High d-low, over the square of what’s below.” The saying rhymes to help us remember the derivative equation.

Examples)  
1)  2) 

3) 

**Trigonometric Function Review**

 

**Derivatives of Trigonometric Functions**

 

Examples)  
1)  2) 

3) 