

Our First Quick Review

The left column contains a function or a curve. Find and write the derivative in the right column.

Names _____

No calculators!

$f(x) = \cos(5x)$	
$g(x) = \sqrt{\cos(x)}$	
$h(x) = \sqrt{\cos(5x)}$	
$f(x) = \sqrt{5x}$	
$g(x) = \tan^{-1}(5x)$	
$h(x) = \ln(5x)$	
$f(x) = \frac{1}{\sqrt{5x}}$	
$g(x) = e^{5x}$	
$h(x) = e^{\sqrt{5x}}$	
$f(x) = 5 + \int_5^{5x} t^3 dt$	
$g(x) = \frac{1}{5x}$	
$h(x) = \frac{1}{\sec(5x)}$	
$\tan(5x) + \cos(5y) = 5xy$ Find $\frac{dy}{dx}$	