

Trig Derivatives

Directions: Find the derivative of each of the following functions.

1. $f(x) = \frac{\sin x}{x + \tan x}$

2. $g(x) = \frac{x}{\sec x}$

3. $h(x) = \sin x \cos x$

4. $f(x) = \frac{1}{\sin^2 x}$

5. $g(x) = x^3 \cot x$

6. $f(x) = (3x^2 - 5x + 1) \tan x$