

Note 
$$f(x) = f(x) = f(x) = \frac{d^{(h)}y}{dx^{(h)}} = \frac{d^{(h)}y}{dx^{(h)}}$$

Nome  $f(x) = f(x) = \frac{d^{(h)}y}{dx^{(h)}} = \frac{d^{(h)}y}{dx^{(h)}}$ 

Constant  $K = f(x) = f(x) = f(x)$ 

Linear  $f(x) = f(x) = f(x)$ 

Power  $f(x) = f(x) = f(x)$ 

Reciprocal  $f(x) = f(x) = f(x)$ 
 $f(x) = f(x) = f(x)$ 

Deriv of  $f(x) = f(x) = f(x)$ 
 $f(x) = f(x) = f(x)$ 

Name

F(x)

$$f(x)$$

Const mult

 $f(x)$ 
 $f(x)$ 

$$= \frac{x^{5/2} + 4x^{3/2} + 3x^{1/2}}{x} = \frac{x(x^{3/2} + 4x^{1/2} + 3x^{-1/2})}{x}$$

$$y = x^{3/2} + 4x^{1/2} + 3x^{1/2}$$

$$\frac{x^{2}+4x+3}{\sqrt{x}} = \frac{x^{2}}{\sqrt{x}} + \frac{4x}{\sqrt{x}} + \frac{3}{\sqrt{x}}$$

$$x^{3/2} + 4x^{3/2} + 3x^{3/2}$$

$$y' = \frac{3}{2} \times 2 + 4\left(\frac{1}{2} \times 2\right) + 3\left(-\frac{1}{2} \times 2\right)$$

$$= \frac{3}{2} x^{1/2} + 2 x^{1/2} - \frac{3}{2} x^{-3/2}$$

$$\left[ \left( x^{2} \right) \left( x^{3} \right) \right]' = \left( x^{2} \right)' \left( x^{3} \right)' ?$$

$$\left( x^{5} \right)' = 2x \cdot 3x^{2}$$

Name

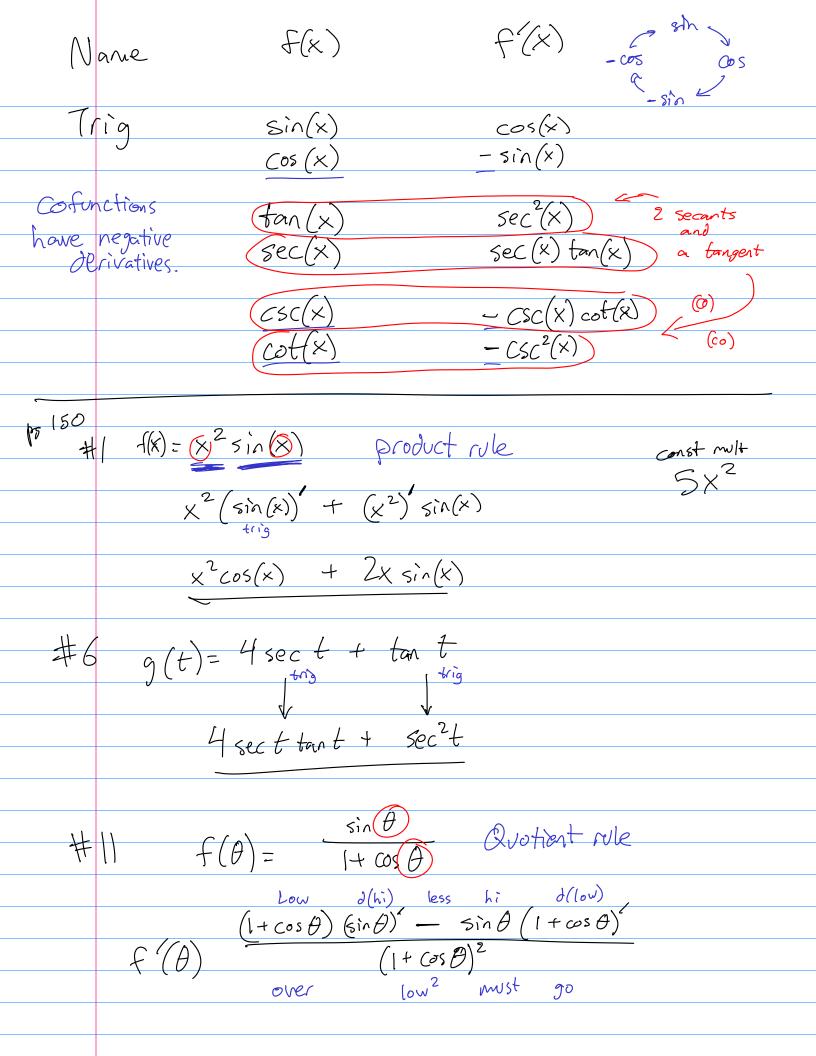
$$g(x) h(x)$$
  $g(x)h(x) + g(x)h(x)$ 

9/h + h/q

Quotient

$$\frac{g(x)}{h(x)} \qquad \frac{hg'-gh'}{h^2}$$

Low d(hi) less hi d(low) over (low)2 must go



$$\frac{(1+\cos\theta)\cos\theta - \sin\theta(-\sin\theta)}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{(\cos\theta + \cos^2\theta + \sin^2\theta)}{(1+\cos\theta)^2}$$

$$\frac{\cos\theta + 1}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{\cos\theta + \cos^2\theta + \sin^2\theta}{(1+\cos\theta)^2}$$

$$\frac{\cos\theta + 1}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{\cos\theta + \cos^2\theta + \sin^2\theta}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{\cos\theta + \sin\theta}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{\cos\theta + \sin\theta}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{\cos\theta + \sin\theta}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{\cos\theta}{(1+\cos\theta)^2}$$
Deriving done...
$$\frac{\cos\theta}{\cos\theta}$$
Deriving done...
$$\frac{\cos\theta}{\cos\theta}$$