\$3.6: What to do about derivots of functions like...
$$y = (x^2 + 1)^{10} \quad \text{or} \quad y = \sin(4x + 3)$$

What is this called when "inside" I "outsite".

How can you know that

$$\frac{d}{dx} \left[ f(g\omega) \right] \neq f'(g'(x))$$

$$y = (x^2 + 1) = x^4 + 2x^2 + 1$$

$$y' = 4x^3 + 4x$$

$$y' = 2(2x) = 4x$$
Nope

$$y' = 2(2x) = 4x$$

Extras;
$$y = (x s in (x))$$

$$y = \left(\frac{x}{x + sin x}\right)$$