

2.3 κανονες παραγωγισιου.

$$\textcircled{1} \quad f(x) = x^3 u \psi x + \frac{1}{x} \quad f'(x) = ;$$

ληξιτ

$$f'(x) = (x^3 u \psi x)' + \left(\frac{1}{x}\right)'$$

$$f'(x) = 3x^2 u \psi x + x^3 \text{buv} x - \frac{1}{x^2}$$

$$\textcircled{2} \quad f(x) = \frac{x^2-1}{x^2+1} \quad f'(x) = ;$$

ληξιτ

$$f'(x) = \frac{(x^2-1)'(x^2+1) - (x^2-1)(x^2+1)'}{(x^2+1)^2}$$

$$f'(x) = \frac{2x(x^2+1) - (x^2-1)2x}{(x^2+1)^2}$$

$$f'(x) = \frac{\cancel{2x^3} + 2x - \cancel{2x^3} + 2x}{(x^2+1)^2}$$

$$f'(x) = \frac{4x}{(x^2+1)^2}$$