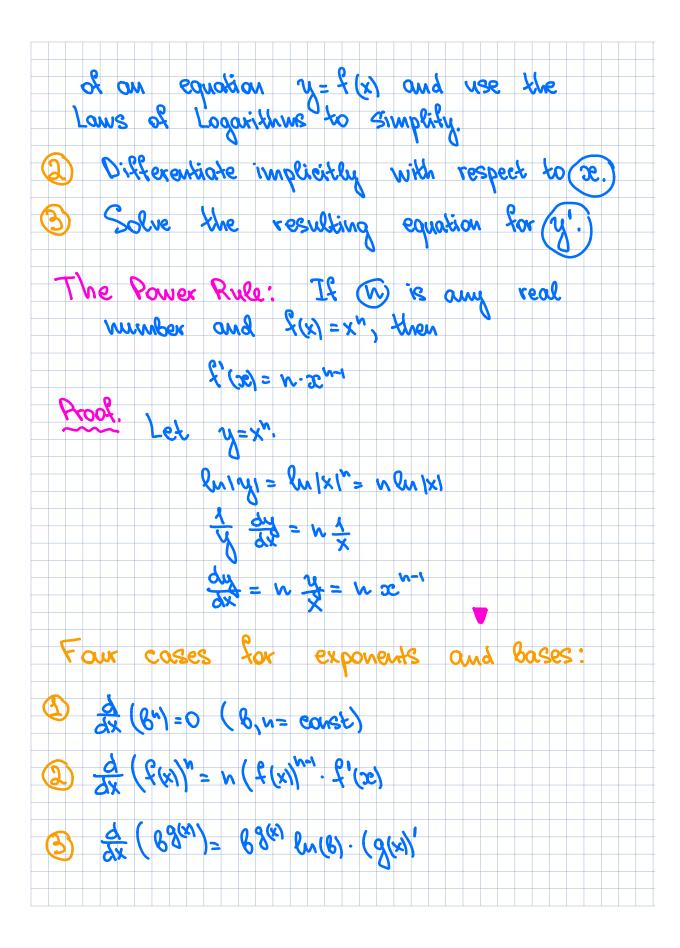


Example
$$\frac{d}{dx}(\ln(\sin(x))) = \frac{1}{\sin x}$$
, eas $(x) = \cot(x)$
Example $\frac{1}{x}(x) = \ln|x|$ $\frac{1}{x}(x) = \frac{1}{x}(\ln|x|, x)$ or $\frac{1}{x}(x) = \frac{1}{x}(x) = \frac{1}{x}(x)$ $\frac{1}{x}(x) = \frac{1}{x}(x)$ $\frac{1}{x}(x)$



(a)
$$\frac{d}{dx} \left(f(x)g(x) \right) = \frac{d}{dx} \left(g(x) \ln f(x) \right) = fg \left(g$$

